STIC

Scientific & Technical Information Center

Search Report
EIC 3600

STIC Database Tracking Number: 230933

To: MILA AIRAPETIAN Location: KNX-5C14 Art Unit: 3625 Wednesday, July 18, 2007 Case Serial Number: 10/600917	**From: GINGER DEMILLE** Location: EIC3600 KNX-4B68 / KNX-4B59 Phone: (571)272-3522 ginger.demille@uspto.gov

Search Notes

Dear Examiner Airapetian,

Please find attached the results of your search for the above-referenced case. The search was conducted in the Dialog Business Methods Template databases. Also, IEEE explore, and ACM.

If you have any questions, or need a refocus, please do not hesitate to contact me.

Thanks,

Ginger
2-3522

STIC EIC 3600
Search Request Form

USPTO
Scientific & Technical Information Center
STIC

Today's Date: _____

Class/Subclass _____

What date would you like to use to limit the search?
Priority Date: _____   Other: _____

Name _M/a Christoph_
AU _3625_   **Examiner #** _81443_
Room # _5C14_   **Phone** _2×3202_
Serial # _10/600,917_

Format for Search Results (Circle One):
(PAPER)   DISK   EMAIL

Where have you searched so far?
(USP)   DWPI   (EPO)   (JPO)   ACM   IBM TDB
IEEE   INSPEC   SPI   Other _____

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

previewing a digital file (a song) wherein the file includes entire song in full fidelity
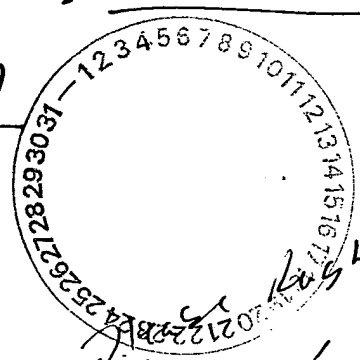
JOHN W. HAYES
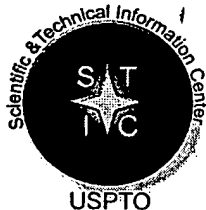SUPERVISORY PATENT EXAMINER

STIC Searcher _____   **Phone** _2-3522_
Date picked up _7-18-07_   **Date Completed** _7-18-07_

sira
Search and Information Resources Administration

STIC Search Results
Feedback Form

EIC 3600

Questions about the scope or the results of the search? Contact **the EIC searcher or contact**:

Karen Lehman, EIC 3600 Team Leader
KNX 4A58, 571-271-3496

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* [   ]   *Example: 3620 (optional)*

➤ *Relevant prior art* **found**, *search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

   Types of relevant prior art found:
   - ☐ Foreign Patent(s)
   - ☐ Non-Patent Literature
     (journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art* **not found:**

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC3600 PK5 Suite 804

```
? show files;ds
File 350:Derwent WPIX 1963-2007/UD=200745
        (c) 2007 The Thomson Corporation
File 344:Chinese Patents Abs Jan 1985-2006/Jan
        (c) 2006 European Patent Office
File 347:JAPIO Dec 1976-2007/Dec(Updated 070702)
        (c) 2007 JPO & JAPIO
File 371:French Patents 1961-2002/BOPI 200209
        (c) 2002 INPI.  All rts. reserv.
File   2:INSPEC 1898-2007/Jul W1
        (c) 2007 Institution of Electrical Engineers
File  35:Dissertation Abs Online 1861-2007/Jun
        (c) 2007 ProQuest Info&Learning
File  65:Inside Conferences 1993-2007/Jul 17
        (c) 2007 BLDSC all rts. reserv.
File  99:Wilson Appl. Sci & Tech Abs 1983-2007/Jun
        (c) 2007 The HW Wilson Co.
File 256:TecInfoSource 82-2007/Aug
        (c) 2007 Info.Sources Inc
File 474:New York Times Abs 1969-2007/Jul 18
        (c) 2007 The New York Times
File 475:Wall Street Journal Abs 1973-2007/Jul 18
        (c) 2007 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
        (c) 2002 The Gale Group
File  23:CSA Technology Research Database 1963-2007/Jul
        (c) 2007 CSA.
File  56:Computer and Information Systems Abstracts 1966-2007/Jul
        (c) 2007 CSA.
```

Set	Items	Description
S1	18367	(FULL OR TOTAL OR COMPLETE OR "100()%" OR FULLY OR FULLEST OR HIGH)(1W)(FIDELITY) OR HI()FI
S2	564417	(DIGITAL OR DIGI OR ELECTRONIC OR MP3 OR MP()3 OR MPEG OR -AUDIO?)(3N)(FILE? ? OR SONG? ?) OR CD OR COMPACT()DISC OR SONG? ? OR ALBUM? ?
S3	37	S1(6N)(PREVIEW? OR PRE()VIEW? OR SEGMENT? OR PRE()PLAY? OR PREPLAY? OR PLAY?(3N)(PART? ? OR SECTION? ? OR CLIP? ?))
S4	37	S1 AND S3
S5	1	S2 AND S3
S6	980	S1 AND S2
S7	997	S2(6N)(PREVIEW? OR PRE()VIEW? OR SEGMENT? OR PRE()PLAY? OR PREPLAY? OR PLAY?(3N)(PART? ? OR SECTION? ? OR CLIP? ?))
S8	6	S1 AND S7

```
? t8/3,k/all
```

8/3,K/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0013929754 - Drawing available
WPI ACC NO: 2004-109688/200411
XRPX Acc No: N2004-087279
Interactive multimedia apparatus uses respective tranducers to monitor each controller of guitar
Patent Assignee: THURDIS DEV LTD (THUR-N)
Inventor: BARRY J A
Patent Family (6 patents, 104 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2004008430	A1	20040122	WO 2003IE102	A	20030714	200411 B

```
AU 2003253229    A1   20040202   AU 2003253229    A   20030714   200450   E
EP 1529280       A1   20050511   EP 2003764095    A   20030714   200531   E
                                 WO 2003IE102     A   20030714
US 20050235813   A1   20051027   WO 2003IE102     A   20030714   200571   E
                                 US 2005520223    A   20050104
JP 2005533273    W    20051104   WO 2003IE102     A   20030714   200574   E
                                 JP 2004521048    A   20030714
US 7145070       B2   20061205   WO 2003IE102     A   20030714   200680   E
                                 US 2005520223    A   20050104
```
Priority Applications (no., kind, date): IE 2002580   A   20020712

Patent Details
```
Number           Kind  Lan  Pg  Dwg  Filing Notes
WO 2004008430    A1    EN   52   19
```
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY
   BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
   IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ
   NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA
   UG US UZ VC VN YU ZA ZM ZW
Regional Designated States,Original: AT BE BG CH CY CZ DE DK EA EE ES FI
   FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ
   TR TZ UG ZM ZW
```
AU 2003253229    A1   EN            Based on OPI patent   WO 2004008430
EP 1529280       A1   EN            PCT Application   WO 2003IE102
                                    Based on OPI patent   WO 2004008430
```
Regional Designated States,Original: AL AT BE BG CH CY CZ DE DK EE ES FI
   FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
```
US 20050235813   A1   EN            PCT Application   WO 2003IE102
JP 2005533273    W    JA    28      PCT Application   WO 2003IE102
                                    Based on OPI patent   WO 2004008430
US 7145070       B2   EN            PCT Application   WO 2003IE102
                                    Based on OPI patent   WO 2004008430
```

   Alerting Abstract ...apparatus using guitar connected to set-top-box
(STB), computer, satellite, games console instruments, stereo, **high
fidelity** audio apparatus, television (TV) through TV modem cable, internet
for **playing   songs** , gigs, pop, **clips** , fits, beats, loops...

   8/3,K/2   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2007 The Thomson Corporation. All rts. reserv.

0010986296 - Drawing available
WPI ACC NO: 2001-610974/200170
XRPX Acc No: N2001-456101
**Multichannel interactive audio system for three dimensional gaming,
compresses and multiplexes added audio components sub-band data of each
channel and its scale factor, and outputs as data frame to decoder**
Patent Assignee: DIGITAL THEATER SYSTEMS INC   (DIGI-N)
Inventor: MCDOWELL S K; DOWELL S K M
Patent Family (10 patents,   87 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
WO 2001033905	A2	20010510	WO 2000US30425	A	20001102	200170	B
AU 200115839	A	20010514	AU 200115839	A	20001102	200170	E
EP 1226740	A2	20020731	EP 2000978368	A	20001102	200257	E
			WO 2000US30425	A	20001102		
KR 2002059667	A	20020713	KR 2002705632	A	20020501	200306	E

JP 2003513325	W	20030408	WO 2000US30425	A	20001102	200333	E
			JP 2001534924	A	20001102		
CN 1411679	A	20030416	CN 2000817336	A	20001102	200345	E
US 6931370	B1	20050816	US 1999432917	A	19991102	200554	E
US 20050222841	A1	20051006	US 1999432917	A	19991102	200566	E
			US 2005129965	A	20050516		
CA 2389311	C	20060425	CA 2389311	A	20001102	200629	E
			WO 2000US30425	A	20001102		
CN 1254152	C	20060426	CN 2000817336	A	20001102	200661	E

Priority Applications (no., kind, date): US 1999432917 A 19991102; US
  2005129965 A 20050516

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001033905	A2	EN	42	11	

National Designated States,Original: AE AL AM AT AU AZ BA BB BG BR BY CA
    CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
    KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
    SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH
    GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200115839	A	EN	Based on OPI patent WO 2001033905
EP 1226740	A2	EN	PCT Application WO 2000US30425
			Based on OPI patent WO 2001033905

Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR
    IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2003513325	W	JA	56	PCT Application WO 2000US30425
			Based on OPI patent WO 2001033905
US 20050222841	A1	EN	Division of application US 1999432917
			Division of patent US 6931370
CA 2389311	C	EN	PCT Application WO 2000US30425
			Based on OPI patent WO 2001033905

Original Publication Data by Authority

Original Abstracts:
...low cost fully interactive immersive digital surround sound environment
suitable for 3D gaming and other **high fidelity** audio applications,
which can be configured to maintain compatibility with the existing
infrastructure of Digital Surround Sound decoders. The...

...low cost fully interactive immersive digital surround sound environment
suitable for 3D gaming and other **high fidelity** audio applications,
which can be configured to **maintain compatibility** with the existing
infrastructure of Digital Surround Sound decoders. The component audio is
stored and...
...low cost fully interactive immersive digital surround sound environment
suitable for 3D gaming and other **high fidelity** audio applications,
which can be configured to maintain compatibility with the existing
infrastructure of Digital Surround Sound decoders. The component audio
is stored and mixed in a compressed and...

...low cost fully interactive immersive digital surround sound environment
suitable for 3D gaming and other **high fidelity** audio applications,
which can be configured to maintain compatibility with the existing
infrastructure of Digital Surround Sound **decoders** . **The** component audio
is stored and mixed in a compressed and simplified format that reduces

memory...
Claims:
...looped segment;b. Appending N frames of PCM audio data from the end of
the **file** to the start of the looped **segment** ;c. Encoding the looped
segment into a bitstream; andd. Deleting N compressed frames from...

8/3,K/3   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

06914196   INSPEC Abstract Number: A9812-0150-055, B9806-0120-082
  **Title: Teaching optical fiber communications and optical data storage
techniques using a compact disc player**
  Author(s): Lane, P.; Van Dommelen, R.; Cada, M.
  Author Affiliation: Dept. of Electr. Eng., Dalhousie Univ., Halifax, NS,
Canada
  Journal: Proceedings of the SPIE - The International Society for Optical
Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3190   p.362-7
  Publisher: SPIE-Int. Soc. Opt. Eng,
  Publication Date: 1997 Country of Publication: USA
  CODEN: PSISDG ISSN: 0277-786X
  SICI: 0277-786X(1997)3190L.362:TOFC;1-W
  Material Identity Number: C574-98030
  U.S. Copyright Clearance Center Code: 0277-786X/97/$10.00
  Conference Title: Fifth International Topical Meeting on Education and
Training in Optics
  Conference Sponsor: SPIE; ICO; Quantoptica Found.; Philips Res. Centre
for Tech. Training; TNO; ODME
  Conference Date: 19-21 Aug. 1997 Conference Location: Delft,
Netherlands
  Language: English
  Subfile: A B
  Copyright 1998, IEE

  ...Abstract: data storage and retrieval function of the compact disc
player is investigated in the second **segment** . In the third **segment** , the
 compact **disc** system is used as a model of an entire optical
communication system.
  ...Descriptors: **Hi** - **Fi** equipment

8/3,K/4   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2007 Institution of Electrical Engineers. All rts. reserv.

04654717   INSPEC Abstract Number: B90046735
  Title: Specification and methods of measurement on audio equipment. Part
8. CD player
  Author(s): Harui, M.; Hirota, Y.; Ishii, S.
  Author Affiliation: Audio Div., Matsushita Electric Ind. Co., Ltd.,
Kadoma, Japan
  Journal: Journal of the Acoustical Society of Japan   vol.46, no.2   p.
132-7
  Publication Date: Feb. 1990 Country of Publication: Japan
  CODEN: NIOGAH ISSN: 0369-4232
  Language: Japanese
  Subfile: B

Title: Specification and methods of measurement on audio equipment. Part
8. CD player
Descriptors: **Hi - Fi** equipment

8/3,K/5 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2007 The HW Wilson Co. All rts. reserv.

1799209 H.W. WILSON RECORD NUMBER: BAST98070683
41st Annual Equipment Directory
Audio v. 82 no10 (Oct. '98) p. 33-266, 284-97
DOCUMENT TYPE: Feature Article ISSN: 0004-752X

...ABSTRACT: the directory is supplied directly from the manufacturer or
importer. The directory is divided into **sections** on DVD & **CD players**
, digital/analog converters, amplifiers, preamplifiers, tuners, receivers,
turntables, tonearms, phono cartridges, headphones, cassette decks, digital
...

DESCRIPTORS: ... **High fidelity** sound systems;

8/3,K/6 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

01664734
SPECIAL REPORT ON A-V CONSUMER ELECTRONICS TECHNOLOGY
  WORLD - SPECIAL REPORT ON A-V CONSUMER ELECTRONICS TECHNOLOGY
Journal of the Electronics Industry (JEI) 0 January 1988 pS60
ISSN: 0385-4515

...VCR, Toshiba's digital SV-950 S-VHS VCR, and Pioneer's CLD-99S LD/ **CD**
/CDV **player** . There are **sections** on digital audio signals, the **CD**
mechanism, and Aiwa's Excelia XD-001 DAT player. It also covers a remote
control...

... other remote controls' commands, and a similar device from Onkyo which
can control several different **hi - fi** components. DAT recorder mechanisms
are also discussed, as is surround sound. Technics' portable DAT, the...
?

```
? show files;ds
File  15:ABI/Inform(R) 1971-2007/Jul 16
        (c) 2007 ProQuest Info&Learning
File  16:Gale Group PROMT(R) 1990-2007/Jul 17
        (c) 2007 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2007/Jul 13
        (c)2007 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
        (c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2007/Jul 13
        (c) 2007 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2007/Jul 13
        (c) 2007 The Gale Group
File   9:Business & Industry(R) Jul/1994-2007/Jul 12
        (c) 2007  The Gale Group
File  20:Dialog Global Reporter 1997-2007/Jul 18
        (c) 2007 Dialog
File 476:Financial Times Fulltext 1982-2007/Jul 18
        (c) 2007 Financial Times Ltd
File 610:Business Wire 1999-2007/Jul 18
        (c) 2007 Business Wire.
File 613:PR Newswire 1999-2007/Jul 18
        (c) 2007 PR Newswire Association Inc
File  24:CSA Life Sciences Abstracts 1966-2007/Jun
        (c) 2007 CSA.
File 634:San Jose Mercury  Jun 1985-2007/Jul 17
        (c) 2007 San Jose Mercury News
File 636:Gale Group Newsletter DB(TM) 1987-2007/Jul 17
        (c) 2007 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
        (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
File  13:BAMP 2007/Jul W3
        (c) 2007  The Gale Group
File  75:TGG Management Contents(R) 86-2007/Jul W2
        (c) 2007 The Gale Group
File  95:TEME-Technology & Management 1989-2007/Jul W3
        (c) 2007 FIZ TECHNIK
File 348:EUROPEAN PATENTS 1978-2007/ 200728
        (c) 2007 European Patent Office
File 349:PCT FULLTEXT 1979-2007/UB=20070712UT=20070705
        (c) 2007 WIPO/Thomson
```

Set	Items	Description
S1	79202	(FULL OR TOTAL OR COMPLETE OR "100()%" OR FULLY OR FULLEST OR HIGH)(1W)(FIDELITY) OR HI()FI
S2	2673408	(DIGITAL OR DIGI OR ELECTRONIC OR MP3 OR MP()3 OR MPEG OR AUDIO?)(3N)(FILE? ? OR SONG? ?) OR CD OR COMPACT()DISC OR SONG? ? OR ALBUM? ?
S3	258	S1(6N)(PREVIEW? OR PRE()VIEW? OR SEGMENT? OR PRE()PLAY? OR PREPLAY? OR PLAY?(3N)(PART? ? OR SECTION? ? OR CLIP? ?))
S4	258	S1 AND S3
S5	86	S2 AND S3
S6	21196	S1 AND S2
S7	17059	S2(6N)(PREVIEW? OR PRE()VIEW? OR SEGMENT? OR PRE()PLAY? OR PREPLAY? OR PLAY?(3N)(PART? ? OR SECTION? ? OR CLIP? ?))
S8	352	S1 AND S7
S9	180	S8 AND SONG? ?
S10	92	S9 FROM 348,349
S11	88	S9 NOT S10

```
S12      55    S11 NOT PY>2003
S13      39    RD  (unique items)
S14      74    S10 AND AC=US(S)AY=1963:2003
S15      16    S14 AND IC=(G06F OR G06Q)  .
?
```

? t13/3,k/all

13/3,K/1   **(Item 1 from file: 15)**
DIALOG(R)File   15:ABI/Inform(R)
(c) 2007 ProQuest Info&Learning. All rts. reserv.

01255991 99-05387
Music to your ears (and eyes)
Jacso, Peter; Tiszai, Judit
Database v19n3 PP: 14-26 Jun/Jul 1996
ISSN: 0162-4105 JRNL CODE: DTB
WORD COUNT: 4727

...ABSTRACT: pace. They represent new opportunities, new concepts, new
pricing strategies, and new legal challenges. The **CD** -ROM **segment** of
the information industry with a very few exceptions cannot cope with the
top notch...
...TEXT: biographies, concert tour details, answers to frequently asked
questions about bands and artists, lyrics of **songs** , and good old gossip.
On the professional services level, catalog records for music recordings,
sheet...

...the style of an unknown artist or a band, or to identify a long
forgotten **song** . Such audio clips would require four to six minutes of
downloading time from an online...

...system from the Intouch Group exudes professionalism in every detail.
All 40,000 albums have **song** lists, price information (regular and member
discount), album cover, and five sample tracks of 30...found by artists. At
the end of February about 60 percent of the albums had **song** lists, there
were 18,000 album covers, and 15,000 albums had sound samples. Typically...

...software has many of the features discussed previously but lacks some
important ones. Album and **song** titles seem to be phrase indexed, so you
need to know exactly the first or...

...but as shown in Table 1 this varies considerably. (Table 1 omitted) The
lack of **song** title searching is a sore point. The album titles appear in
a tabular form that...
...biography is also included. Clicking on the album title brings up its
details with the **song** list, and the album cover. Clicking on the code of
the sound files will start playing the sample after a few seconds delay.
You cannot select individual **songs** from the album, they play back as a
series for a total of 50 to 60 seconds. Precious seconds are lost by the
unnecessary announcements of the **song** titles that are already displayed
in front of us. The repetitive pitching ("the album includes the hit **song**
") is annoying enough, but the incorrect pronunciation of many of the
Italian and Spanish artists' names and **song** titles add insult to injury.
The coverage is rather unpredictable. It was surprising to see...clips, but
the low number of sound clips is disappointing. Most of the albums have
song lists, and playing time (though not for the individual **songs**).
Price is not available, but you may call a toll-free number to find out...

...deserves praise for its multimedia database that is searchable by
artists and genre. It has **song** listings, background information, liner
notes and sound samples for artists and bands, including such former...

...AU and MPEG file format. An interesting feature of Warner is that it
provides sneak **previews** for upcoming **albums** a month before their
release.

EMI's Web site is deeply disappointing, way below the...the entire album. Much too often we tend to buy albums based on the one **song** that is played on the radio, just to find that the rest of the album...

...therefore the shortest delay before playback, but the samples were of poor quality.

MP Music **Previews** stands out with samples from 110 **albums** , representing 100 artists, and 20 different labels. They include such bestsellers as Paula Abdul, The albums per issue with cover photos, **song** lists, discographies, a few video clips, and three 30-second sound clips per album may...

...it supports lesser known artists and offers 30-second samples in AU, low fidelity and **high fidelity** MPEG.

DATABASES OF ASSOCIATIONS AND AGENCIES

Beyond the music stores, the music publishers, and the...

...160,000 songwriters and composers) has a stunningly large, adequately searchable database of seven million **songs** , but it has no multimedia elements at all--nor does the database of ASCAP, the...

...pace. They represent new opportunities, new concepts, new pricing strategies, and new legal challenges. The **CD** -ROM **segment** of the information industry with a very few exceptions cannot cope with the top notch...

 13/3,K/2   (Item 2 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)
(c) 2007 ProQuest Info&Learning. All rts. reserv.

00892308   95-41700
The virtues of CD-ROM
Rosen, David
Foundation News & Commentary v35n4   PP: 38-40   Jul/Aug 1994
ISSN: 0015-8976   JRNL CODE: FOU
WORD COUNT: 1506

...TEXT: America? CD-ROM provides "a dazzling array of tightly integrated video and audio clips, pictures, **songs** and primary documents that are organized into more than 200 'excursions' from the 450-page...

...the second in 1992), had been adopted in more than 200 college courses. The resulting **CD** -ROM title covers only a **segment** of the textbook, the period from 1876 to the outbreak of World War I in...

...are key Supreme Court opinions; the cinema thriller, "The Great Train Robbery"; period music and **songs** from ragtime tunes, spirituals and campaign ditties; hundreds of old-time images, including political cartoons ...

...s Ninth Symphony or an entire encyclopedia. That's the equivalent of 74 minutes of **hi** - **fi** stereo music or 250,000 pages of text--more than 550 megabytes of digital data...

 13/3,K/3   (Item 3 from file: 15)

Ginger R. DeMille

00748204 93-97425
Using multimedia in hospitality training
Harris, Kimberley J; West, Joseph J
Cornell Hotel & Restaurant Administration Quarterly v34n4 PP: 75-82 Aug
1993
ISSN: 0010-8804 JRNL CODE: CHR
WORD COUNT: 3928

...TEXT: discs and a special computer, the user can control color palettes,
audio tracks, and video **segments** . Viewers can change the lyrics of **songs**
, add voice-overs, create set designs, and select various scenarios. The
viewers get feedback from...650 megabytes on a 12-still frames (over
7,800), audio (over two hours of **high** **fidelity** stereo or 17 hours of
simple narration), text, and graphics (up to 150,000 pages...

  13/3,K/4   (Item 1 from file: 16)

09455645   Supplier Number: 83095878 (USE FORMAT 7 FOR FULLTEXT)
**Sony's Offers Three Internet Audio Solutions to Take Along Your Mp3s; Net
  MD Walkman Recorders Lead Exciting Line-Up that Includes New CD Players
  with MP3 Playback and New Network Walkman Player.**
PR Newswire, pNYW10820022002
Feb 20, 2002
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1077

...   exact spot on the track that was playing if the device gets shut
off mid- **song** . The boombox also features a 14- **segment** LCD display that
makes it easy to read up to 64 characters of alphabetic labeling...

...comes with a remote control. It will be available in April for about
$100.
      Mini **Hi** **Fi** System
      The new MHC-GS200 and MHC-GS300 AV mini systems feature MP3 playback
capability from CD-R/RW discs. Consumers can listen to their compressed
MP3 **songs** on the system. The MHC-GS300 AV model adds Dolby(TM) Digital
Pro Logic(TM...
...files.
      With this new player, consumers can create their own digital music
collections by downloading **songs** from the Internet and by ripping tracks
from their CDs to their hard drive. Music...

  13/3,K/5   (Item 2 from file: 16)

09262598   Supplier Number: 80604672 (USE FORMAT 7 FOR FULLTEXT)
**Top acts to propel Pinnacle into 2002: with a hugely diverse selection of
  artists, topped off by some stellar names, Pinnacle is confident of a
  strong fourth quarter. (Autumn Product Preview -- Pinnacle).**
Davis, Sarah
Music Week, p14(1)

Sept 29, 2001
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1101

...   profile BBC
    TV natural history series.

    LE HAMMOND INFERNO: My First Political Dance
    Album -- Invicta **Hi - Fi** (September 24) Le
    Hammond Inferno are Marcus and Holger,
    the brains behind Berlin's Bunglow...Talvin Singh.

    KINOBE: Versebridgechorus? -- Pepper (October
    15) The follow up to their critically-acclaimed
    debut **album**
    Soundphiles is
    previewed today
    (Monday) by the
    single Summer In
    The Studio which
    samples Lovin'
    Spoonful's Summer...

...debut for
    Papillon will be supported by massive TV
    exposure, including an ITV special featuring
    songs from the album and a TOTP2 one-off
    plus a substantial TV-advertising campaign.
    There...

 13/3,K/6   (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

09251025   Supplier Number: 80534325   (USE FORMAT 7 FOR FULLTEXT)
**Music & sound products: suppliers of: amplifiers, band & orchestral
  products; cases; DJ products; fretted instruments; percussion products;
  recording equipment; sound reinforcement equipment; synthesizers &
  related MIDI and electronic music products; karaoke hardware; general
  accessories, also, music distributors.**
Music Trades, v149, n10, pS45(240)
Nov, 2001
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 123078

...   customers in three continents. The company manufactures and
controls the trademarks of American Fifes and **Song** Whistles, along with
the Stevens line of Hawaiian guitar steels. Also produced are music lyres
...0451. Fax: (301) 725-8823. Steve Melkisethian, owner.
        Used and vintage electric guitars, amps, tube **hi - fi** gear, parts,
old effects pedals, old catalogs and display materials, microphones, and
other electro/musical...7689. Email: support@chickensys.com.
        CHINALIGHT STATIONERY & SPORTING GOODS--No. 910 Ninth Section, Jim
Song, **Chao** Yang District, Beijing 100021, China. Telephone:
011-86-10-6776-6688. Fax: 011-86-10...org. Adrian
     Burton, president; Bill Peters, marketing coordinator.
        Multimedia software development and eMedia guitar songs, **eMedia**

Guitar Windows and Mac Method 1&2 CD-ROMS. eMedia Guitar CD-ROM for Windows
...limited to membership in the group.
>   HARMON MUTE COMPANY--See Carpenter Company in this section.
>   **HARMONA** IMPORT--Refer to Weltmeister, Inc., in this section.
>   HARMONIC VISION--68 East Wacker Place #700...

13/3,K/7   (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

09054391   Supplier Number: 78965243 (USE FORMAT 7 FOR FULLTEXT)
New UK boss Grainge makes his mark as Universal reflects on its successes.
Harding, Mary-Louise
Music Week, p26
Sept 15, 2001
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 3278

...   Can't Leave Behind -- which has also won a place in 2001's Top 20
albums at 17 following its sneak **preview** at last year's conference --
the company has successfully launched artist albums from PJ Harvey...

...Elton John, who dropped in to provide a closing treat for retailers with
four new **songs** from his new **Songs** From The West Coast album -- American
Triangle, Original Sin, ...Hear'Say special and ending with an appearance
on the Royal Variety Show.
>   ELTON JOHN: **Songs** From The West Coast -- Rocket/Mercury (October
1) Back with what many claim is his best new work in 20 years, the
irrepressible Elton John **previews** this **album** with his first brand new
single since Candle In The Wind 1997 -- I Want Love...Music for this album
targeted at the Christmas market.
>   SIR HARRY SECOMBE: This Is My **Song** The Gold Collection -- Phillips
(October 22) Following Sir Harry's death earlier this year, a...

...on the triple-platinum soundtrack album with a collection of director
Richard Curtis's handpicked **songs** which were missed off the first album
and "inspired" by the film.
>   SMOKEY ROBINSON: The...

...featuring the likes of Barry White, Samantha Mumba, Paul McCartney and
Elton John.
>   VARIOUS: US **Hi - Fi** - UMTV (November 5) A compilation to
capitalise on this year's US nu-metal explosion...

...joint venture title Club Mix and a second volume of Steve Wright's
Sunday Love **Songs** . Also, in conjunction with Universal Classics, Chilled
Classics and the Classical Album 2002.
>   THE BEAUTIFUL...asyet unconfirmed TV, press and radio promotion for
this Broadway favourites compilation. The album includes **songs** from the
King And I and My Fair Lady.
>   SUM 41: In Too Deep -- Mercury...
...November) One of the UK's biggest-selling male stars, Keating returns
with a new **album** in November, **previewed** by the single Love Won't Work.

13/3,K/8   (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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08862546   Supplier Number: 76965759 (USE FORMAT 7 FOR FULLTEXT)
Fans Find Indie Musk Through Uplister Playlists.
AIESE, ERIC
Billboard, v113, n31, p61
August 4, 2001
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; General
Word Count: 842

...   company's service, which for nine months has allowed users, known
as playmakers, to share **song** playlists. It could also help serve as a
breakout application for the concept of playlist...

...example, a search for Radiohead retrieves more than 100 playlists, with
titles ranging from "Love **Songs** That Break My Heart" to "15 Albums You
Should Own."
     The latter, composed by a...

...data as a motto and picture, as well as favorite playlists from other
playmakers.
     The **song** entries link to 30-second **previews** , provided by Muze,
and discs can be purchased via click-throughs to Amazon.com.
     Uplister...

...5, DJ Paul Oakenfold, MTV veteran Martha Quinn, and novelist Nick
Hornby, whose characters in **High   Fidelity** were precursors to Uplister
playmakers.
     For the new subscription service, Uplister has secured performance
licensing...

 13/3,K/9   (Item 6 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

08322757   Supplier Number: 70367681   (USE FORMAT 7 FOR FULLTEXT)
MUSIC & SOUND PRODUCTS.
Music Trades, v148, n12, pS45
Jan, 2001
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 121589

...   was established in 1902. The company manufactures and controls the
trademarks of American fifes and **song** whistles and the Stevens line of
Hawaiian guitar steels. Also manufactured are music lyres for...0451. Fax:
(301) 725-8823. Steve Melkisethian, owner.
     Used and vintage electric guitars, amps, tube **hi - fi** gear, parts,
old effects pedals, old catalogs and display materials, microphones, and
other electro/musical...emedia.org. Adrian Burton; president; Bart
DeCoster, marketing coordinator.
     Multimedia software development and eMedia guitar **songs** , eMedia
Guitar Windows and Mac Method 1&2 CD-ROMS. eMedia Guitar CD-ROM for...
Sensitive.
     Recorders--Hohner and Yamaha. Also, Dixie fifes, flutophones, jaw-
harps, kazoos, slide whistles, and **song** flutes.
     Metronomes--Electra, Qwik Tune, and Wittner.
     Harmonicas and Melodicas--Chicago Blues, Hohner, Huang, and...
section), Kustom Amps (see Kustom in this section), Powerwerks Conditioners

(see Powerwerks in this section), **Dawn** Pro Audio Systems (see Dawn in this section), and Davitt & Hanser Distributing (see Davitt & Hanser... 773-2422.

INNOVATION--Strings for double bass. Refer to Meisel Stringed Instruments in this section.

INNOVATION DRUM CO.--24300 Civic Center Drive #409, Southfield, Michigan 48034. Telephone: (248) 851-9241. Fax...digital learning media athat offers musicians of all levels the power to play the songs **they** love. With iSong's next-generation interactive CD-ROM-based products for guitar and keyboard...Fax: (770) 394-8206.

Karaoke and d.j. products from major manufacturers. Thousands of song **titles** from Sound Choice, Music Maestro, Chartbusters, Pioneer, and DKKaraoke. Hardware from Pioneer, BST, JVC, SoundTech...

13/3,K/10   (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06807284   Supplier Number: 57569863 (USE FORMAT 7 FOR FULLTEXT)
Microsoft and BMG Move Digital Music Into Mainstream.
PR Newswire, p5129
Nov 15, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 868

...   Artist Showcase kicks off with The Artist (formerly Prince), who is currently making available a **song** for download as well as a streamed video and **previews** of **songs** from his new **album** , "Rave Un2 the Joy Fantastic." On Nov. 22, Foo Fighters will be featured in the...

...quality of Microsoft Windows Media."
Technologies critical to the widespread adoption of digital music include **high** - **fidelity** compression, which makes it possible to stream music and videos across the Internet in real...

...of BMG's worldwide marketing team, BMG-distributed artists account for 14 of the 18 **songs** offered on Microsoft's Play Pack CD-ROM, which will be distributed to more than...

13/3,K/11   (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

06781420   Supplier Number: 57165650 (USE FORMAT 7 FOR FULLTEXT)
**Elektra Records, AOL's Spinner.com, Winamp Brands, AOL Music and Mjuice.com
  Bring 'Anything' to Internet Fans Hungry for Preview of Third Eye
  Blind's New Album 'Blue'.**
PR Newswire, p6347
Nov 3, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 903

...**com, Winamp Brands, AOL Music and Mjuice.com Bring 'Anything' to
  Internet Fans Hungry for Preview of Third Eye Blind's New Album
  'Blue'.**
...   of the album's second track, "Wounded," as well as some of the

bands favorite **songs** and tracks from artists that influenced their musical career.
        Additionally, Mjuice.com and AOL's...

...revolutionized the traditional radio broadcasting model by delivering more than 250,000 full-length digitized **songs** within 130+ highly specialized music channels, across all genres, to millions of listeners worldwide. Created by programming prodigy Justin Frankel in 1998, the Winamp **high - fidelity** audio player attracts more than 15 million active users and has been downloaded more than...

...SHOUTcast is the Winamp-based distributed streaming audio system that enables anyone with the Winamp **high - fidelity** audio player and a dial-up Internet connection to broadcast or tune into Internet streaming...

 13/3,K/12   (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

06541654   Supplier Number: 55362241   (USE FORMAT 7 FOR FULLTEXT)
Music, Macs Merge At MacWorld.
TRAIMAN, STEVE
Billboard, v111, n32, p55
August 7, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; General
Word Count: 1249

...   support. It will be in retail stores soon at $49.95, with 100-plus MP3 **songs** and a 6-foot stereo cable to connect the **hi - fi** system to the computer, converting it into a "virtual jukebox." What Kunysz calls unique "skin...

...music. There are Web links to many music sites, including mp3.com, live365.com, and **songs** .com.
        Adaptec's Toast 4 Deluxe CD-R (recordable) software for the Mac will be...

...various partner sites. The company has pledged its support of the SDMI hardware standards.
        Yamaha **previewed** its first combination 6X **CD** -R writer, 4X CD-RW rewriter, and 16X CD-ROM reader for the Mac, available...

...virtual DJ environment that allows users to create or remix their own music or remix **songs** from major-label artists using D-Plates, Mixman's recently announced "Internet singles" option.
        "It...

 13/3,K/13   (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

06382062   Supplier Number: 54776566   (USE FORMAT 7 FOR FULLTEXT)
NOTEBOOK.
Consumer Electronics, v39, n22, pNA
May 31, 1999
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade

Word Count: 4993

...   based Brilliant Digital also announced that Netherlands-based Midas
Interactive Entertainment will include Multipath Movie **previews** on **CD**
-ROMS that Midas will distribute globally.
     * EchoStar has priced its DISHPlayer combination satellite/WebTV
receiver...com web site.
     * Lucent Technologies said recent video Webcast of recording session
for David Bowie **song** What's Really Happening was first to be shot ...on
CDs or other optical media to skip playback of unwanted tracks was
introduced at **Hi - Fi** '99 show by Xtrax Labs, Arlington Heights, Ill.
System requires player to be modified to...

 13/3,K/14   (Item 11 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

06222384   Supplier Number: 54221061 (USE FORMAT 7 FOR FULLTEXT)
SMIL: The New Web Format For Multimedia.(Synchronized Multimedia
   Integration Language)(Technology Information)
Stanek, William Robert
PC Magazine, p233(1)
Feb 9, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; General Trade
Word Count: 3415

...   free. RealPlayer G2 Plus is an extended commercial version with
enhancements for stereo playback and **high - fidelity** video. Both players
are available for Windows 95, 98, and NT or Macintosh from www...event
timing:
     <par>
     <video src="video1.rm" begin="8.5s" end="30.1s"/>
     <audio src=" **song1** .ra" begin="30.1s" clip-begin="5s"clip-end="15s"/>
     </par>
     When the presentation begins...

...the next line starts and runs until 30.1 seconds into the presentation.
Finally, the **audio** clip **Song1** .ra begins. While the audio **clip** is
playing , the Sunset.jpg image is displayed. Note that the audio segment
uses the clip-begin...isdn or higher -->
     <video src="video1.rm" begin="8.5s" end="30.1s"/>
     <audio src=" **song1** .ra" begin="30.1s" clip-begin="5s"clip-end="15s"/>
     </par>
     <par system-bitrate="20000...

 13/3,K/15   (Item 12 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

05400798   Supplier Number: 54474540 (USE FORMAT 7 FOR FULLTEXT)
The Sound of Streaming.(Evaluation)
MANNERS, CHRIS
Interactivity, v3, n11, p15(1)
Nov, 1997
Language: English   Record Type: Fulltext
Article Type: Evaluation
Document Type: Magazine/Journal; Trade

Word Count: 5946

...   R deck is a common home appliance. Using the company's system,
surfers can sample **songs** online by listening to a streaming **preview**
clip, download the full selections, and pay by credit card before burning a
CD. The resulting audio disc will be playable in a standard stereo system;
graphics, **song** lyrics, and other cool stuff will come along with it,
ready to be printed or...

...major problems facing audio delivery on the Web -- copyright protection.
As a customer downloads a **full - fidelity** audio file, the system embeds
encrypted data in the file that identifies the purchaser. Copies...
...licenses them to play the audio files on their own computer and to copy
each **song** to CD-R one time. Once customers have registered and received a
Passport, they don...

...to be exposed to real-world conditions. Music Boulevard is currently
charging $0.99 per **song** (which seems a little steep considering the blank
CD costs $6 or so). But Liquid...

13/3,K/16   **(Item 13 from file: 16)**
DIALOG(R)File   16:Gale Group PROMT(R)
(c) 2007 The Gale Group. All rts. reserv.

03383391   Supplier Number: 44696907   (USE FORMAT 7 FOR FULLTEXT)
InterActive Loves to Rock & Roll
HFD-The Weekly Home Furnishings Newspaper, pSB19
May 23, 1994
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 136

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...known music clips on CD-ROM. The diverse collection of music encompasses
Delta blues, love **songs** , and rock and roll, with recordings in both 8-bit
and **high fidelity** 16-bit formats.
    The musical clips range from 5 to 30 seconds in length. The **songs**
can be copied directly into the computer.
    'Music Clips' features Wave Editor and Multimedia Sound...

...work like a stereo rack system, the company said. In addition to the
recorded musical **clips** , the program **plays** MIDI music **files** and **audio**
 CDs, and lets users create their own custom sound effects.
    The music CD-ROM carries...

13/3,K/17   **(Item 1 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

0019778196   SUPPLIER   NUMBER: 57597815   (USE   FORMAT 7 OR 9 FOR FULL
TEXT)
MICROSOFT: Microsoft and BMG move digital music into mamainstream.
M2 Presswire, NA -
Nov 16, 1999
LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 968   LINE COUNT: 00084

...   Artist Showcase kicks off with The Artist (formerly Prince), who is currently making available a **song** for download as well as a streamed video and **previews** of **songs** from his new **album** , "Rave Un2 the Joy Fantastic." On Nov. 22, Foo Fighters will be featured in the...

...quality of Microsoft Windows Media."
      Technologies critical to the widespread adoption of digital music include **high - fidelity** compression, which makes it possible to stream music and videos across the Internet in real...

...of BMG's worldwide marketing team, BMG-distributed artists account for 14 of the 18 **songs** offered on Microsoft's Play Pack CD-ROM, which will be distributed to more than...

13/3,K/18   **(Item 2 from file: 148)**
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

16141582   SUPPLIER NUMBER: 106648791   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Online music: new hits and misses: the latest music services deliver a wealth of legal tunes--for a price. Should you pay to play? (Music Services).
Dahl, Eric
PC World, 21, 9, 119(5)
Sept, 2003
ISSN: 0737-8939   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 2935   LINE COUNT: 00224

TEXT:
      ...such as FullAudio MusicNow, Musicmatch MX Platinum, MusicNet@AOL, Pressplay, and RealNetworks RealOne Rhapsody, stream **songs** to you on the fly and often let you store tracks on your PC, but...
...   plans to introduce a Windows version of its Mac-only ITunes Music Store, which sells **songs** for 99 cents each with no subscription fees. At press time, Buy.com rolled out...5 per month, it costs only half as much as the average streaming service.
      Streaming **songs** from a gigantic collection of music can be a powerful draw. RealOne Rhapsody, for example...everyone. And strictly speaking, the service isn't unlimited--if you download more than 2000 **songs** in a month, you may get a nasty e-mail message threatening to cancel your...

...you don't scale back your activity.
      SELECTION: HITS AND MISSES
      ALTHOUGH the number of **songs** offered online is growing every day, none of the services I looked at came close to the promise of the celestial jukebox with every **song** you could possibly want available on demand. Most struggle just to match the terrestrial record...

...to predict which artists' work will be for sale on any given service.
      Well-known **songs** from the Beatles, Madonna, and the Rolling Stones aren't legally available for download anywhere...turned in the best results, including some new and little-known artists, as well as **preview** tracks from upcoming **albums** . Most of the services provide the same basic selection, except for EMusic, which stocks tracks...

...promise of file sharing networks such as Grokster and Kazaa but the 250,000-plus **songs** available ...tracks nearly impossible--its artist

pages don't tell you anything beyond the number of **songs** it has. Until you start listening to the customized radio station that cycles through rifles...000 tracks, you're going to need an efficient way to find and organize the **songs** you want. Unfortunately, this is where many online music services fall down.

Most are fine...

...This thoughtful addition makes Rhapsody a handy reference even if it doesn't have the **song** you want; it would be ...track on every album that made the top 200--and you can't collapse the **songs** into albums, which makes for lots of scrolling.

At least MusicNow and ...a plan featuring unlimited downloads of copy-protected files. While you can't burn those **songs** to a CD or copy them to a portable player without paying a fee, you...

...s able to handle windows Media Audio files. That capability means you can slot those **songs** in with the rest of your PC-based MP3 collection as long as you're...custom radio station that you create, and you can specify whether the station plays their **songs** frequently ...on shuffle play. In practice, you never know whether the service will have the best **songs** by any artists. Still, the related artists I found on the Artist On Demand radio **HIGH FIDELITY** ?

OF course, the best interface in the world can't rescue streaming audio that sounds...changes the level of compression from moment to moment depending on the complexity of the **song** . Most Emusic files end up with an average bit rate in the range of 180...limitless collection of tunes? Will independent musicians and record labels be able to promote their **songs** on these new networks? Will Rhapsody wise up and move U2 out of the "Brit... your custom radio stations.

(ILLUSTRATION OMITTED)

(thumbs down) MUSICNET@AOL doesn't let you sort **songs** by their track numbers, making it hard to listen to an album in order.

(ILLUSTRATION...

13/3,K/19 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

12517713 SUPPLIER NUMBER: 64423542 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Digital audio breaks the sound barrier.(Technology Information)
Dipert, Brian
EDN, 45, 15, 71
July 20, 2000
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 8236 LINE COUNT: 00699

... kbps rates.
LESSER KNOWN, BUT HEAR THEM OUT TOO
AAC forms the high-bit-rate, **high - fidelity** audio foundation of the MPEG-4 specification in a further enhanced derivative of its MPEG...

...MPEG-4 AAC uses the BSAC kernel tailored for scalable systems. For lower bit-rate, **high - fidelity** audio, MPEG-4 turns to the TwinVQ algorithm and also supports other codecs for reduced...

...was beginning to show its age, and Dolby Surround was also inappropriate for surround-sound **high - fidelity** music reproduction. The rear surround was monophonic--that is, it didn't provide separate left...Mbps to create a claimed higher quality audio presentation. Coherent Acoustics' compression

still enables a **full - fidelity** , six-channel, 20-bit audio stream to fit
into roughly the same CD space that...

...be tossing a number of test tones, solo-instrument and vocal clips, and
well-known **song** **segments** at the nearly three dozen lossy and lossless
encoders and decoders in my possession.
    I...

  13/3,K/20   (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

12414842   SUPPLIER NUMBER: 63691442   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Media security thwarts temptation, permits prosecution.(Industry Trend or
  Event)**
Dipert, Brian
EDN, 45, 13, 101
June 22, 2000
ISSN: 0012-7515   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 8362   LINE COUNT: 00707

...   the consumers' acceptance will be more enthusiastic. Examples of
richer media include higher resolution images; **high - fidelity** ,
multichannel surround sound; smaller files for a given quality level; and
otherwise-unavailable clips, such...monthly subscription fee to a record
label and, in exchange, being able to access any **song** from any album in
that label's catalog 24 hours a day, seven days a...a user can move that
media among multiple players. (For example, you can take your **songs** over
to your friend's house to listen to them.) However, this approach has
downsides...adjustable amount of distortion. Applying this concept to
e-commerce means that a customer could **preview** entire **songs** versus
today's short clips and then purchase a key to enable access to them...

  13/3,K/21   (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

11118019   SUPPLIER NUMBER: 54869339   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Digital what? the coming revolution in radio.(radio broadcasting industry)
McKinsey Quarterly, 2, 124(6)
Spring, 1999
ISSN: 0047-5394   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1972   LINE COUNT: 00169

...   permitting operators to reach large numbers of listeners, even for
obscure genres, and advertisers to **segment** national audiences. Two
operators, **CD** Radio and American Mobile Radio, expect their listeners
(including niche music enthusiasts, sports fans, and...

...this market. The technology exploits existing stereo and home theater
sound systems to offer true **high - fidelity** radio. Although most people
would rather watch television than listen to radio in their living...
digital broadcasting's greater capabilities, such as the ability to
transmit the name of the **song** being played for display on the radio panel
or, perhaps, to monitor and analyze patterns...

  13/3,K/22   (Item 6 from file: 148)

08729872   SUPPLIER NUMBER: 18353652   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Music to your ears (and eyes): multimedia music databases.
Jacso, Peter; Tiszai, Judit
Database, v19, n3, p14(10)
June-July, 1996
ISSN: 0162-4105   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 5073   LINE COUNT: 00387

...   biographies, concert tour details, answers to frequently asked
questions about bands and artists, lyrics of **songs** , and good old gossip.
On the professional services level, catalog records for music recordings,
sheet...

...the style of an unknown artist or a band, or to identify a long
forgotten **song** . Such audio clips would require four to six minutes of
downloading time from an online...

...system from the Intouch Group exudes professionalism in every detail.
All 40,000 albums have **song** lists, price information (regular and member
discount), album cover, and five sample tracks of 30...found by artists. At
the end of February about 60 percent of the albums had **song** lists, there
were 18,000 album covers, and 15,000 albums had sound samples. Typically...

...software has many of the features discussed previously but lacks some
important ones. Album and **song** titles seem to be phrase indexed, so you
need to know exactly the first or...

...clips per album, but as shown in Table 1 this varies considerably. The
lack of **song** title searching is a sore point. The album titles appear in
a tabular form that...

...biography is also included. Clicking on the album title brings up its
details with the **song** list, and the album cover. Clicking on the code of
the sound files will start playing the sample after a few seconds delay.
You cannot select individual **songs** from the album, they play back as a
series for a total of 50 to 60 seconds. Precious seconds are lost by the
unnecessary announcements of the **song** titles that are already displayed
in front of us. The repetitive pitching ("the album includes the hit **song**
") is annoying enough, but the incorrect pronunciation of many of the
Italian and Spanish artists' names and **song** titles add insult to injury.
The coverage is rather unpredictable. It was surprising to see...

...clips, but the low number of sound clips is disappointing. Most of the
albums have **song** lists, and playing time (though not for the individual
songs). Price is not available, but you may call a toll-free number to
find out...deserves praise for its multimedia database that is searchable
by artists and genre. It has **song** listings, background information, liner
notes and sound samples for artists and bands, including such former...

...AU and MPEG file format. An interesting feature of Warner is that it
provides sneak **previews** for upcoming **albums** a month before their
release.
      EMI's Web site is deeply disappointing, way below the...the entire
album. Much too often we tend to buy albums based on the one **song** that is
played on the radio, just to find that the rest of the album...

...therefore the shortest delay before playback, but the samples were of

poor quality.

MP Music **Previews** stands out with samples from 110 **albums** , representing 100 artists, and 20 different labels. They include such bestsellers as Paula Abdul, The...

...free online competition, MusicNet's collection of 220-230 albums per issue with cover photos, **song** lists, discographies, a few video clips, and three 30-second sound clips per album may...

...it supports lesser known artists and offers 30-second samples in AU, low fidelity and **high fidelity** MPEG.

DATABASES OF ASSOCIATIONS AND AGENCIES

Beyond the music stores, the music publishers, and the...160,000 songwriters and composers) has a stunningly large, adequately searchable database of seven million **songs** , but it has no multimedia elements at all--nor does the database of ASCAP, the...

...pace. They represent new opportunities, new concepts, new pricing strategies, and new legal challenges. The **CD** -ROM **segment** of the information industry with a very few exceptions cannot cope with the top notch...

 13/3,K/23 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

06710029 SUPPLIER NUMBER: 14444847 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Using multimedia in hospitality training. (includes related articles and glossary) (Educators' Forum)
Harris, Kimberley J.; West, Joseph J.
Cornell Hotel & Restaurant Administration Quarterly, v34, n4, p75(8)
August, 1993
ISSN: 0010-8804 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 6193 LINE COUNT: 00522

... discs and a special computer, the user can control color palettes, audio tracks, and video **segments** . Viewers can change the lyrics of **songs** , add voice-overs, create set designs, and select various scenarios. The viewers get feedback from...variety of media, including video still frames (over 7,800), audio (over two hours of **high fidelity** stereo or 17 hours of simple narration), text, and graphics (up to 150,000 pages...

 13/3,K/24 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

03526077 SUPPLIER NUMBER: 06455452 (USE FORMAT 7 OR 9 FOR FULL TEXT)
CD changers finally find their audience. (multiple compact disc changer)
Day, Rebecca
Consumer Electronics, v16, n6, p152(2)
June, 1988
ISSN: 0362-4722 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2221 LINE COUNT: 00169

... one time-bad-mouthed by certain suppliers as too feature-oriented to be considered quality **hi** - **fi** components, compact disc changers have come into their own as a category within a category...

...magazine changer that is compatible with the car DiscJockey machine.

Bob Weissburg, director of the **high - fidelity** product division at Sony, estimates that changers currently account for about 30 percent of home logical that everyone's lines should expand. As changers are the fastest-growing **segment** of **CD** , the high-end **segment** is the fastest-growing segment of audio."
Wanting Ultimate Convenience
Of Sony's changer offerings...
...for $399, includes a music calendar feature, Random Roulette Play, whereby the changer randomly selects **songs** for playing order as well as an additional single-disc drawer that allows a user....

...changing magazines. The DP-M97R, which carries a suggested retail price of $349, includes 32- **song** random access programming, the company says: Not all suppliers, however, agree that the level of...

13/3,K/25   (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2007 The Gale Group. All rts. reserv.

02197113   SUPPLIER NUMBER: 03463206   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sony introduces the world's smallest compact disc player that delivers sonic performance with complete portability.
PR Newswire, NYPR62
Oct 2, 1984
LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 539   LINE COUNT: 00041

TEXT:
...5 compact disc player -- the world's most versatile CD player -- Sony has extended the **CD** concept to meet virtually every **segment** of the consumer market," said Neil Vander Dussen, president, Sony Consumer Products Company. "Sony now...
The D-5 CD player can be plugged into a home **high - fidelity** system or used on-the-move with an optional battery pack/carrying case and optional...

...compact disc format itself is so advanced that it exceeds all previously accepted limitations in **high   fidelity** . The D-5's dynamic range, (the key factor in DC's lifelike sound) is...

...features. The Automatic Music Sensor(TM) feature makes it easy to locate and play favorite **songs** by instantly scanning forward or back until the desired selection is found. Its Music Search...

13/3,K/26   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2007 The Gale Group. All rts. reserv.

02082583   SUPPLIER NUMBER: 19603279   (USE FORMAT 7 OR 9 FOR FULL TEXT)
High   fidelity . (one art and seven music CDs) (CD-RON) (Software Review)(Evaluation)(Column)
White, Ron
PC/Computing, v10, n8, p146(2)
August, 1997
DOCUMENT TYPE: Evaluation Column   ISSN: 0899-1847   LANGUAGE:
  English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2406   LINE COUNT: 00176

High fidelity . (one art and seven music CDs) (CD-RON) (Software
  Review)(Evaluation)(Column)
... a lot of delightful activities, such as remixing and recording
music loops from Gabriel's **songs** and .tearing apart works of art to
understand what makes them art. The CD mixes...

...photos into interviews with Willie and his friends. His fans will
treasure learning about classic **songs** Nelson had to sell for groceries at
one time, or how he played chess in...stoned or otherwise gullible will sit
there happily thinking he's listening to the entire .**song** . There's a lot
of backstage gossip and commentary bythe performers but really, who gives
...

...reviews to put the opera in perspective. But the one thing missing from
Tommy the **CD** is Tommy the opera. The music **segments** are too short, just
whetting your appetite for the complete performance. What about the entire
...

...shirt collection. But there's no search function and if there's just one
uninterrupted **song** on the CD, I couldn't find it. Mainly it had me
searching through boxes...

13/3,K/27 **(Item 1 from file: 9)**
DIALOG(R)File 9:Business & Industry(R)
(c) 2007 The Gale Group. All rts. reserv.

02052786 Supplier Number: 25554997 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Internet Audio Expected To Be Plentiful This Year
(Several manufacturers are introducing Internet audio portable products,
  including Sony, Philips, and Jensens)
TWICE, v 15, n 1, p 66+
January 06, 2000·
DOCUMENT TYPE: Journal ISSN: 0892-.7278 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2783·

     (USE FORMAT 7 OR 9 FOR FULLTEXT.)

TEXT:
...protects music downloaded from Internet music sites; EMMS covers
Internet downloads as well as ripping **songs** from CDs; and WMA's DRM can
be implemented to do both.

Here are the...

...nick.com. At first, they'll upload promotional content, but eventually,
they hope to upload **songs** for a fee.
The 500's supplied music-management software plays back WMA files on...

...embedded memory and an expandable slot for a MultiMedia Card. The
multifunction LCD display shows **song** title, elapsed time, and bass and
treble adjustment.

It ships in a clamshell package that...

...It will play back music files and display still pictures (JPEGs at a
minimum) and **song** lyrics.

The Motion YEPP, due at the same time, will play back music videos in...

...operating time off a single AA alkaline battery.

Unlike the Memory Stick Walkman, the Music **Clip** **plays** back **files** in the **MP3** and ATRAC3 formats. It's upgradable to play other formats the company might support in...

...PRODUCT NAMES: Consumer **high - fidelity** components (365136)

 13/3,K/28 **(Item 2 from file: 9)**
DIALOG(R)File 9:Business & Industry(R)
(c) 2007 The Gale Group. All rts. reserv.

01990738 Supplier Number: 25462700   (USE FORMAT 7 OR 9 FOR FULLTEXT)
New spin on the term 'server' emerges from Escient, Arrakis
(Escient to launch 200-disc CD/DVD changer in 12/99; Arrakis to launch
  Digilink 4 audio server that stores music on hard drive)
TWICE, v 14, n 23, p 42
October 11, 1999
DOCUMENT TYPE: Journal ISSN: 0892-7278 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 554

     (USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:
Escient will launch a 200-disc **CD** /DVD changer as **part** of a Power **Play** package in 12/99. The product will provide information from the DVDs and CDs, such...

TEXT:
...is less compressed than MP3 and allows for storage of 1,200 to 1,500 **songs** , the company said. The **songs** are played back at a data rate of 256 Kbps compared to the more common...

...can use supplied floppy disc-based software to rip CDs from a PC, encode the **songs** , and transfer them to the Digilink.

The software transfers CD-Text info into the Digilink...

...PRODUCT NAMES: Consumer **high - fidelity** components (365136)

 13/3,K/29 **(Item 3 from file: 9)**
DIALOG(R)File 9:Business & Industry(R)
(c) 2007 The Gale Group. All rts. reserv.

00579223 Supplier Number: 23116027
Thrifty models add life to personal-stereo market
(Companies introducing longer-playing, less-expensive personal stereos;
  Japanese market sells some 3.7 mil units/yr)
Nikkei Weekly, v 33, n 1655, p 11
January 23, 1995
DOCUMENT TYPE: Journal ISSN: 0918-5348 (Japan)
LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:
...an alkaline cell. It also has a "music scan" feature that enables the user to **preview** the first 10 seconds of each **song** . The company is

shipping nearly 70,000 units/month.

PRODUCT NAMES: Consumer **high - fidelity** components (365136).

 13/3,K/30   (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

27352840   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Showbiz Dinner
WALES ON SUNDAY
January 26, 2003
JOURNAL CODE: WSUW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 382

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   egg and smoked salmon. For dessert we could have chocolate mousse."
    WHat's on the **hi** - **fi** ?
    "Apart from Marilyn singing, I would definitely have **songs** from the
shows. In fact, the cast album of Zipp! because I would like to...

... of Arc, Helen of Troy and Elizabeth I would never have heard any of
these **songs** . We would also **play** **party** games. We do that at our
parties now. People think they are going to hate...

... service at dinner would be perfect, and he could join in the music
afterwards, performing   **songs** from Andrew Lloyd Webber's musical called
Jeeves. I'd also like to have a...

 13/3,K/31   (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

21362272   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Sony's Offers Three Internet Audio Solutions to Take Along Your Mp3s
PR NEWSWIRE
February 20, 2002
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1015

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   exact spot on the track that was playing if the device gets shut
off mid- **song** . The boombox also features a 14- **segment** LCD display that
makes it easy to read up to 64 characters of alphabetic labeling...

... comes with a remote control. It will be available in April for about
$100.
    Mini **Hi Fi** System
    The new MHC-GS200 and MHC-GS300 AV mini systems feature MP3 playback
capability from CD-R/RW discs. Consumers can listen to their compressed MP3
 songs   on the system. The MHC-GS300 AV model adds Dolby(TM) Digital Pro
Logic(TM...
...files.
    With this new player, consumers can create their own digital music
collections by downloading **songs** from the Internet and by ripping tracks
from their CDs to their hard drive. Music...

13/3,K/32   (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

17523214   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Rock & Pop: The sexiest mutha in town - if only he'd ditch the harmonica
Beck Brixton Academy London / Sparklehorse Manchester University
Simon Price
INDEPENDENT ON SUNDAY
July 01, 2001
JOURNAL CODE: FINS   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 652

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   Diamond Dogs" in a distinctly Princely style, the triangle is
complete. (Beck recently recorded that **song** for the Moulin Rouge
soundtrack with Timbaland, exactly the sort of rock-to- soul move...

... that it's all so sublimely superfly. For his opening number, and a
prolonged six- **song**   **segment**   near the end, he straps on an acoustic
guitar and it all gets horribly Woodstock...

...I toss him 20p.
    But Beck is on an inexorable trajectory from lo-fi to **hi - fi** , and
the farther he moves along it, the better he gets. His overriding love is
...

...s difficult to see why you'd pay pounds 13 to stand and listen to **songs**
so fragile they're frequently drowned out by ringtones.
    Linkous, oblivious, continues his dispirited drone through a set of
songs which display an alarming fixation with horses, sitting at a
lectern which houses a special...

13/3,K/33   (Item 4 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

17179710   (USE FORMAT 7 OR 9 FOR FULLTEXT)
New Program From MP3.com Puts Massive Music Collection and First-Time
    Functions a Mere Click Away
PR NEWSWIRE
June 12, 2001
JOURNAL CODE: WPRW   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1271

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   from MP3.com (www.mp3.com) offers, for the first time, hundreds of
thousands of **songs** from digital artists plus subscription channels and
commercial CDs in a single easy-to-use program. Users can browse the
massive near million- **song** music collection on MP3.com, listen to **songs** ,
create playlists, and more.
    Audio CDs, and the growing popularity of MP3 CDs, can be created from
users' favorite **songs** directly from their online music collections. Many
portable MP3 players now have the ability to...

... collection can be loaded in just seconds through the Beam-It(TM) technology. High-quality **song** **previews** from commercially available CDs, can be played and newly purchased CDs can become immediately available...

... account through Instant Listening(TM) relationships with retail partnerships.

Through PLuS Express, charts and featured **songs** from MP3.com's massive digital music library can become part of every user's...

... the user to organize tracks through playlists and stream the music in lo-fi or **hi** - **fi** quality. An integrated search facility spans not only the music in an individual's music collection, but the MP3.com **song** library and commercially available artists as well.

"Nobody wants to scrap their entire music collection...

... playable in standard CD players. With just a few mouse clicks, a CD of favorite **songs** can be created that will play in a car or home CD player. Another CD-burning feature is the ability to create an MP3 format CD, allows more than 100 **songs** to be burned onto each CD. Owners of popular portable memory-based MP3 players will find an icon to load **songs** from their online account directly to their portable player in a one-click fashion.

"Digital...

... the largest collection of digital music available on the Internet, with more than 967,000 **songs** and audio files posted from over 150,000 digital artists and record labels. Dedicated to...

13/3,K/34   (Item 5 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

14738762   (USE FORMAT 7 OR 9 FOR FULLTEXT)
India: It's yesterday once more
10 a.m., he and the other three members of his group, Taantrikz,
BUSINESS LINE
January 22, 2001
JOURNAL CODE: FBLN   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1979

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   been completely removed from the scene by the advent of DJs and the coming of **high** - **fidelity** sound equipment that play taped music to the guests."

Even Braulio agrees but hastens to...

...a techno-mixer guy who comes up with quick-fix hype, with a medley of **songs** and music."

Many regulars to pubs and discos agree. Says Ragini, a 21-year-old...

... is stepping on the other's toes," he says. Bands, he explains, always complete a **song** before going on to the next and there is a chorus and all the trappings... on an Iron Maiden tribute album released by UK-based recording company Energie Records. Moksha **played** a **section** of its eight- **song** Maiden Medley and the original 'Chasing my Life' which speaks against the use of drugs...

...live on radio in UK. 'Stay' was written by Leon and was Moksha's first **song** to go on MTV.

Moksha draws its influences from bands such as Iron Maiden, Metallica
...

...the international scene.
Its demo, titled 'Walk Before You Crawl', has a collection of nine **songs** . Although it has many more lined up, it says, "recording them will take some time...

... and styles. In a way this came from the experience of writing and recording the **song** 'Pretty Child'. The tabla was used unconventionally for the first time in their music.
Recording...

13/3,K/35   (Item 6 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

09161842 (USE FORMAT 7 OR 9 FOR FULLTEXT)
A Hed of the game
Israeli record firm Hed Artzi is making war on computer piracy.
 SECTION TITLE: Features
Ido Amin
HA'ARETZ
January 18, 2000
JOURNAL CODE: WHTZ   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1072

  (USE FORMAT 7 OR 9 FOR FULLTEXT)

...it possible, I was asked, to produce a CD that can be played on any **hi** - **fi** system or CD player, but cannot be played on a computer's CD drive? Well...

...audio disc and "sees" all the tracks on the disc, no program is able to **play** any **part** of the **album** . They all look as if they are playing it, but the speakers remain silent.
...   Tower Records homepage. Among the files available for download at Tower Records? Several of the **songs** which appear on a newly-relased album by Tal Gordon and Rona Keinan. The latest...

13/3,K/36   (Item 7 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2007 Dialog. All rts. reserv.

08262479 (USE FORMAT 7 OR 9 FOR FULLTEXT)
MICROSOFT: Microsoft and BMG move digital music into mainstream
M2 PRESSWIRE
November 16, 1999
JOURNAL CODE: WMPR   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 885

  (USE FORMAT 7 OR 9 FOR FULLTEXT)

...Artist Showcase kicks off with The Artist (formerly Prince), who is currently making available a **song** for download as well as a streamed video and **previews** of **songs** from his new **album** , "Rave Un2 the Joy Fantastic." On Nov. 22, Foo Fighters will be featured in the...
...   quality of Microsoft Windows Media."

Technologies critical to the widespread adoption of digital music include **high** - **fidelity** compression, which makes it possible to stream music and videos across the Internet in real...

... of BMG's worldwide marketing team, BMG-distributed artists account for 14 of the 18 **songs** offered on Microsoft's Play Pack CD-ROM, which will be distributed to more than...

13/3,K/37 (Item 1 from file: 613)
DIALOG(R)File 613:PR Newswire
(c) 2007 PR Newswire Association Inc. All rts. reserv.

00721777 20020220NYW108 (USE FORMAT 7 FOR FULLTEXT)
Sony's Offers Three Internet Audio Solutions to Take Along
PR Newswire
Wednesday, February 20, 2002 17:01 EST
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 1,053

...exact spot on the track that was playing if the device gets shut off mid- **song** . The boombox also features a 14- **segment** LCD display that makes
it easy to read up to 64 characters of alphabetic labeling...

...comes with a remote control. It will be available in April for about $100.

Mini **Hi** **Fi** System
The new MHC-GS200 and MHC-GS300 AV mini systems feature MP3 playback capability from CD-R/RW discs. Consumers can listen to their compressed MP3
songs on the system. The MHC-GS300 AV model adds Dolby(TM) Digital Pro Logic(TM...

...files.
With this new player, consumers can create their own digital music collections by downloading **songs** from the Internet and by ripping tracks from
their CDs to their hard drive. Music...

13/3,K/38 (Item 1 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2007 San Jose Mercury News. All rts. reserv.

10866074
IMPORTS AND CHANCY INDIES LEFT THE BEST '00 MEMORIES
San Jose Mercury News (SJ) - Sunday, December 31, 2000
By: GLENN LOVELL, Mercury News
Edition: Morning Final Section: Arts & Entertainment Page: 4E
Word Count: 1,265

...a contempt for their target audience.

The best

The best, in no particular order:

1. '' **High   Fidelity** '' -- The hippest, funniest movie of the year
finds John Cusack playing an oldies fanatic who...

... Dark'' -- Lars von Trier returned with the year's most daring hybrid:
part psychological drama, **part** Bergman-esque morality **play** , **part**
 song -and-dance fantasy. Icelandic pop sensation Bjork, like Emily Watson
in von Trier's ''Breaking...

 13/3,K/39   (Item 1 from file: 13)
DIALOG(R)File   13:BAMP
(c) 2007 The Gale Group. All rts. reserv.

00508587   Supplier Number: 23539510 (USE FORMAT 7 OR 9 FOR FULLTEXT)
 Music to Your Ears (and Eyes): Multimedia Music Databases; Part 2
(An overview of the multimedia databases available)
Article Author(s): Jacso, Peter; Tiszai, Judit
Database, v 19, n 3, p 15-26
June 1996
DOCUMENT TYPE: Journal ISSN: 0162-4105 (United States)
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2771

 (USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:
...clips, but the low number of sound clips is disappointing. Most of the
albums have **song** lists, and playing time (though not for the individual
 songs). there are six major music publishers (known as the Big Six) that
have about 80...

TEXT:
...clips, but the low number of sound clips is disappointing. Most of the
albums have **song** lists, and playing time (though not for the individual
 songs). Price is not available, but you may call a toll-free number to
find out...
...deserves praise for its multimedia database that is searchable by
artists and genre. It has **song** listings, background information, liner
notes and sound samples for artists and bands, including such former...

...AU and MPEG file format. An interesting feature of Warner is that it
provides sneak **previews** for upcoming **albums** a month before their
release.

EMI's Web site is deeply disappointing, way below the...

...www.atlantic-records.com
Geffen Records   www.geffen.com
Rolling Stones Official   www.stonesworld.com
 CD Link   www.cdlink.com
MP Music **Previews**   www.mpmusic.com
Rock Web   www.rockweb.com
SonicNet   www.sonicnet.com
MW3   www.mw3...

...the entire album. Much too often we tend to buy albums based on the one
 song that is played on the radio, just to find that the rest of the album
...
...therefore the shortest delay before playback, but the samples were of
poor quality.

MP Music **Previews** stands out with samples from 110 **albums** , representing 100 artists, and 20 different labels. They include such bestsellers as Paula Abdul, The...

...free online competition, MusicNet's collection of 220-230 albums per issue with cover photos, **song** lists, discographics, a few video clips, and three 30-second sound clips per album may...

...it supports lesser known artists and offers 30-second samples in AU, low fidelity and **high fidelity** MPEG.

DATABASES OF ASSOCIATIONS AND AGENCIES

Beyond the music stores, the music publishers, and the...

...160,000 songwriters and composers) has a stunningly large, adequately searchable database of seven million **songs** , but it has no multimedia elements at all--nor does the database of ASCAP, the...
...pace. They represent new opportunities, new concepts, new pricing strategies, and new legal challenges. The **CD** -ROM **segment** of the information industry with a very few exceptions cannot cope with the top notch...
?

? t15/3,k/all

15/3,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2007 European Patent Office. All rts. reserv.

00949399
INTERACTIVE WEB BOOK SYSTEM
INTERAKTIVES NETZBUCHSYSTEM
SYSTEME DE LIVRE WEB INTERACTIF
PATENT ASSIGNEE:
  Family Systems Limited, (2533520), 8 St. George's Street, Douglas, Isle
    of Man IM1 1AH, (GB), (Proprietor designated states: all)
INVENTOR:
  REYNOLDS, Brian, Kimmage, Main Street, Hopewell, Hanover, (JM)
  GOLDHOR, Richard, Scott, 5 Falmouth Street, Belmont, MA 02178, (US)
LEGAL REPRESENTATIVE:
  Beck, Simon Antony et al (79081), Withers & Rogers, Goldings House, 2
    Hays Lane, London SE1 2HW, (GB)
PATENT (CC, No, Kind, Date):   EP 932872   A1   990804 (Basic)
                               EP 932872   B1   010926
                               WO 9818086   980430
APPLICATION (CC, No, Date):   EP 97909427 971015;   WO 97GB2842   971015
PRIORITY (CC, No, Date): US 735727 961023
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
  MC; NL; PT; SE
INTERNATIONAL PATENT CLASS (V7): **G06F-017/30**
NOTE:
  No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200139	1044
CLAIMS B	(German)	200139	1051
CLAIMS B	(French)	200139	1256
SPEC B	(English)	200139	8696
Total word count - document A			0
Total word count - document B			12047
Total word count - documents A + B			12047

INTERNATIONAL PATENT CLASS (V7): **G06F-017/30**

...SPECIFICATION information. Some contributed material may be literary or
  artistic in nature, such as an essay, **song** , painting, or movie. Other
  contributed material may be of a more technical or utilitarian nature...

...ideas. An ibook may contain a number of different types of
  contributions, such as essays, **songs** , and video clips, structured
  around a central theme. If desired, ibooks may be set up...
...material. For example, a contributor may wish to create a running
  commentary on a multimedia **segment** or a **song** . Although the commentary
  is not an alternate version of the existing material, it is related...of
  musical fragments from different composers or a mix of multiple tracks
  into a single **song** .
    A derivation may be a sequel in which the subject, characters, and
  context of a...

...the same material in French. Alternatively, the original material might
  contain the score of a **song** and the transcription might contain a
  recording of a performer singing the **song** . If the original contains a

Java script for an applet, the transcription might contain an...

...with a different quality or resolution. For example, it may be desired to store a **high fidelity** audio track at one location and a lower fidelity version of the same track at...

...work of the other contributor. For example, a composer may create a track of a **song** while listening to an existing track of another composer.

FIG. 3 is a more detailed...a book) or in parallel (e.g., when the components are audio tracks in a **song**).

As a user views passages 152, ibook server application 64 preferably stores information concerning which...in FIG. 14. In ibook system 272, a first composer at client 274 records a **high - fidelity** track (track A) in the form of ibook passage 276 using ibook authoring tool 86...

...first composer may create a rhythm guitar track to form the basis of a new **song** . Because **high - fidelity** audio requires a substantial amount of memory to store, the first composer can create a...

...such as a vocal track. Low-fidelity passage 280 contains less information than the corresponding **high - fidelity** passage 278, so it is easier to provide passage 280 to client 286. The second...

...a vocal track, while listening to the rhythm guitar track of the first composer. A **high - fidelity** version of the vocal track (track B) can be stored on client 286 in passage...

...84 allows users to listen to multiple tracks in parallel, in the form of a **song** . Users can select which tracks are played back and the mix of the track using...

...to hear only those tracks contributed by a certain composer. In addition, contributors can create **songs** by copying selected tracks and editing them using authoring tool 86.

Server 278 maintains sufficient...

...can be used by navigation tool 84 and authoring tool 86 to play back the **high - fidelity** versions of tracks A and B.

Although various information concerning the ibook passages, such as...

15/3,K/2   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01226812   **Image available**
AUDIO VISUAL PLAYER APPARATUS AND SYSTEM AND METHOD OF CONTENT DISTRIBUTION USING THE SAME
APPAREIL ET SYSTEME DE LECTEUR VISUEL AUDIO, ET PROCEDE DE DISTRIBUTION DE CONTENU ASSOCIE
Patent Applicant/Assignee:
  MUSICGREMLIN INC, 667 Medison Avenue, New York, NY, US, US (Residence), US (Nationality), (Designated for all)
Inventor(s):
  KHEDOURI Robert, 338 National Court, Roslyn, NY 11576, US, (Designated for all)
  AXELROD Jonathan, 81 Perry Street Apt.BE, New York, NY 10014, US, (Designated for all)
  PRICE Harold, 5949 Pudding Stone Lane, Bethel Park, PA 15102, US,

(Designated for all)
Legal Representative:
  WEISZ Tiberiu et al (agent), Gottlieb, Rackman & Reisman, P.C., 270
    Madison Avenue, New York, NY 10016-0601, US
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200534373 A2-A3 20050414 (WO 0534373)
  Application: WO 2004US32321 20041001 (PCT/WO US2004032321)
  Priority Application: US 2003507110 20031001; US NONE 20040929
Designated States:
(All protection types applied unless otherwise stated - for applications
2004+)
  AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
  DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
  LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
  RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
  SE SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 19819

International Patent Class (v8 + Attributes)
IPC + Level Value Position Status Version Action Source Office:
  G06F-0015/16 ...

...US
  G06F-0017/30 ...
Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
... recently, socalled "portable jukeboxes" have been introduced that can
  hold an estimated 1 0,000 **songs** or more of musical entertainment by
  including a miniature hard disk recorder in the housing...

...resulting sound and images; (5) process and amplify the resulting analog
  signal; and (6) produce **high** - **fidelity** sound and video for the user,
  which may be played, paused, fastforwarded, rewound, skipped or...

...not enable a non-technical user to create and manage custom "playlists"
  (i.e., fixed **song** sequences), such that a user can easily develop and
  use a variety of personalized playlists...

...audio, this may include such items as length of track, name of artist,
  name of **song** , name of album, encoding format and bit rate), an Internet
  application server interface that communicates...

...are not currently stored on the device (e.g., based on a preferred
  sequence of **songs** or videos the user has compiled (a "playlist"), only
  some of which are currently stored...devices 103, 104 are used to search
  locally-stored fully searchable and browseable artist and **song**
  databases..The search may be based on indexed and periodically updated
  digital database files, enabling...

...a content selection that is made available on a subscription basis (but
  not a purchased **song**) unless the device has received a verification,

such as in the last 30 days, from...

...offset from the underlying non-resettable clock), in order to ensure
that the time of **song** playback and current time can be properly
recorded and reported to the network; (3) including...

...the device that counts the number of times,
27
including time and date, that each **song** was listened to or transferred
or that a network authentication occurred, which reports this information
...

...of-use last reported by the device; that it is impossible for x number
of **songs** having a length of y to have been heard during the course of a
one...

...the expiration of audio and video content, such as not permitting the
playback of a
song more than a predetermined number of times (e.g., 30) without a new
authentication by...

...and/or video selections sorted by geographic proximity@of users (e.g.,
most popular videos/ **songs** by number of views/listens for Birmingham,
Alabama, based on the billing addresses of the...

...invention enables the following secure functions.

[0068] 1) Valid subscribers are able to select a **song** or video and
choose to "beam" it to another player device over a WiFi connection...the
album cover art 1002 (which may be enlarged by touching it). By selecting
"get **song** now" or "get album now" 1003, subscribers can access the
selection on demand. If they...

...retain the file indefinitely even if his or her subscription is no
longer valid.
These **song** purchases permit permanent ownership of the track and the
ability to
48
transfer it to...of another user in multiple ways. User A can choose to
browse User B's **song** collection by connecting to user B (wirelessly or
otherwise) and requesting a list of User...

Claim
... sending and receiving of digital media.
1

46 The system of claim 43 wherein said **digital** media **file** includes a
segment of a presentation.

47 A networked portable media player comprising:
a network interface for sending...

15/3,K/3 **(Item 2 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2007 WIPO/Thomson. All rts. reserv.

01222211 **Image available**
METHOD AND SYSTEM FOR CONTROLLING VIDEO MEDIA
PROCEDE ET SYSTEME DE COMMANDE D'UN CONTENU VIDEO

Patent Applicant/Assignee:
  MEDIA RIGHTS TECHNOLOGIES, 55 River Street, Ste. 200, Santa Cruz, CA
    95060, US, US (Residence), US (Nationality), (For all designated states
    except: US)
Patent Applicant/Inventor:
  RISAN Hank, 515 Washington Street, Santa Cruz, California 95060, US, US
    (Residence), US (Nationality),
  FITZGERALD Edward Vincent, 100 Peach Terrace, Santa Cruz, CA 95060, US,
   US (Residence), US (Nationality),
Legal Representative:
  GALLENSON Mavis S et al (agent), 5670 Wilshire Boulevard, Suite 2100, Los
    Angeles, CA 90036-5679, US
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200529273 A2-A3 20050331 (WO 0529273)
  Application: WO 2004US30588 20040915   (PCT/WO US2004030588)
  Priority Application: US 2003503934 20030916; US 2004941787 20040914
Parent Application/Grant:
  Related by Continuation to: US 2003503934 20030916 (CON)
Designated States:
(All protection types applied unless otherwise stated - for applications
2004+)
  AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
  DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
  LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
  RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
  SE SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 45362

Main International Patent Class (v7): **G06F**

International Patent Class (v8 + Attributes)
IPC + Level Value Position Status Version Action Source Office:
  G06F-0001/00 ...
Fulltext Availability:
  Detailed Description

Detailed Description
... statutory license is defined as a non-interactive license, meaning the
  user cannot select the **song** .

  Further, a caveat of ...system accelerators, progress bars, save
  functions, pause functions, rewind functions, skip track functions,
  forward track **preview** , copying to **CD** , copying to a portable
  electronic device, and the like.

  1 8
  It is noted that...Figures 5A, 513, 5C, 5D, and 6), which can then access
  and utilize the delivered **high fidelity** media content, enabling its
  user(s) to experience the media content, e.g., listen to...combination of
  software and hardware.

  The present embodiment provides a method for restricting recording of
  high fidelity media content delivered via one or more communication
  networks. The present embodiment delivers the **high fidelity** media
  content to registered clients while preventing unauthorized clients from

directly receiving media content from...

...that the media content in content server 251 can be, but is not limited
to, **high fidelity** music, audio, video, graphics, multimedia,
alphanumeric data, and the like. The media content play list...

...associated with the desired media content that can include, but is not
limited to, a **song** , an audio clip, a video clip, a picture, a
multimedia clip, an alphanumeric document, or...

...server 25 1.

In operation 738 of Figure 7C, content server 251 transmits the requested
high fidelity media content to client computer system 210. It is
noted that each media content file...

...clips, and the like).

49
In operation 740 of Figure 7C, upon receiving the requested **high
fidelity** media content from content server 251, the present embodiment
causes client computer system 210 to...
...in a manner that restricts unauthorized redistribution. For example, the
present embodiment can cause the **high fidelity** media content to be
stored in a volatile memory device (e.g., 102), utilizing one...

...be cached for a limited period of time.

Alterriatively, the present embodiment can cause the **high fidelity**
media content to be stored in a 0 non-volatile memory device, (e.g., 103
...playback application 501 of Figures 5A-5D), which can then access and
utilize the delivered **high fidelity** media content, enabling its
user(s) to experience the media content, (e.g., listen to...

...herein.

Advantageously, by utilizing multiple content servers, (e.g., media
delivery point 804816), to provide **high fidelity** media content to
client computer systems, (e.g., 210-230), located throughout the world,
communication...picture academy member for their review of a movie, a
record industry critic to review **songs** that may be released on a new
compact disc, etc.). Alternatively, demonstration and/or pre...content of
media storage device 999. If media content 2001-M are audio tracks or
songs , then output device 1370 is an audio or sound card for outputting
music via speakers...

 15/3,K/4   (Item 3 from file: 349)

01185158   **Image available**
METHOD AND SYSTEM FOR CONTROLLED MEDIA SHARING IN A NETWORK
PROCEDE ET SYSTEME DE PARTAGE DE MEDIA CONTROLE DANS UN RESEAU
Patent Applicant/Assignee:
  MUSIC PUBLIC BROADCASTING INC, 55 River Street, Ste. 200, Santa Cruz,
    California 95060, US, US (Residence), US (Nationality), (For all
    designated states except: US)
Patent Applicant/Inventor:
  RISAN Hank, 515 Washington Street, Santa Cruz, California 95060, US, US

Detailed Description
... statutory license is defined as a non-interactive license, meaning the
  user cannot select the song .

  Further, a caveat of this type of broadcast license is that a user must
  not...system accelerators, progress bars, save functions, pause
  functions, rewind functions, skip track functions, forward track **preview**
  , copying to **CD** , copying to a portable electronic device, and the like.

  1 5
  It is noted that...

...display of information relative to the media content
  26
  file including, but not limited to, **song** title, artist name, album
  title, artist bio, and other features such as purchase inquiries,
  advertising...5A, 5B, 5C, 51), and 6A, which can then access and
  35
  utilize the delivered **high**   **fidelity** media content, enabling its
  user(s) to experience the media.

  content, e.g., listen to...combination of software and hardware.

  The present embodiment provides a mechanism for restricting recording of
  high   **fidelity** media content delivered via one or more communication
  networks. The present embodiment delivers the **high**   **fidelity** media
  content to registered clients while preventing unauthorized

53
clients from directly receiving media content...

...that the media content in content server 251 can be, but is not limited
to, **high fidelity** music, audio, video, graphics, multimedia,
alphanumeric data, and the like. The media content play list...

...associated with the desired media content that can include, but is not
limited to, a **song**, an audio clip, a video clip, a picture, a
multimedia clip, an alphanumeric document, or...

...1.

In step 73 8 of Figure 7C, content server 25 1 transmits the requested
high fidelity media contenttoclientcomputersystem21O.
Itisnotedthateachmediacontentfiledeliveredtoclient computer system 2 1 0
can have a header attached thereto, prior...

...video clips, and the like.

In step 740 of Figure 7C, upon receiving the requested **high fidelity**
media content from 1 5 content server 25 1, the present embodiment causes
client computer....

...in a manner that restricts unauthorized redistribution.

For example, the present embodiment can cause the **high fidelity** media
content to be stored in a volatile memory device, utilizing one or more
hidden...

...be cached for a limited period of time. Alternatively, the present
embodiment can cause the **high fidelity** media content to be stored in
a non-volatile memory device, e.g., 103 or...

...of Figures 5A, 513, 5C, and 5D, which can then access and utilize the
delivered **high fidelity** media content, enabling its user(s) to 5
experience the media content, e.g., listen...Advantageously, by utilizing
multiple content servers, e.g., media delivery point 804-816, to provide
high fidelity media content to client computer systems, e.g., 210-230,
located throughout the world, communication...picture academy member for
their review of a movie, a record industry critic to review **songs** that
may be released on a new compact disc, etc. Alternatively, demonstration
and/or pre...content on media storage device 999. If media content 2001
-N are audio tracks or **songs**, then output device 1370 is an audio or
sound card for outputting music via speakers...

 15/3,K/5   (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2007 WIPO/Thomson. All rts. reserv.

01178258   **Image available**
METHOD AND SYSTEM FOR CONTROLLING PRESENTATION OF DIGITAL CONTENT
PROCEDE ET SYSTEME POUR CONTROLER UNE PRESENTATION
Patent Applicant/Assignee:
  MUSIC PUBLIC BROADCASTING INC, 56 River Street, Suite 200, Santa Cruz,
    California 95060, US, US (Residence), US (Nationality)
Inventor(s):
  FITZGERALD Edward Vincent, 100 Peach Terrace, Santa Cruz, California
    95060, US,

RISAN Hank, 515 Washington Street, Santa Cruz, California 95060, US,
Legal Representative:
  GALLENSON Mavis S (et al) (agent), LADAS & PARRY, 5670 Wilshire
    Boulevard, Suite 2100, Los Angeles, California 90036-5679, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 2004100152 A2-A3 20041118 (WO 04100152)
  Application: WO 2004US14422 20040504   (PCT/WO US04014422)
  Priority Application: US 2003430843 20030505
Parent Application/Grant:
  Related by Continuation to: US 2003430843 20030505 (CON)
Designated States:
(All protection types applied unless otherwise stated - for applications
2004+)
  AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM
  DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
  LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO
  RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US (patent) UZ VC VN YU
  ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO
  SE SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 36748

Main International Patent Class (v7): G06F-001/00
Fulltext Availability:
  Detailed Description

Detailed Description
... statutory license is defmed as a non-interactive license, meaning the
    user cannot select the **song** .
    Further, a caveat of this type of broadcast license is that a user must
    not...

...accelerators, progress bars,. save functions, pause functions, rewind
   functions, skip trac@k fanctions, forward track **preview** , copying to **CD**
   , copying to a portable electronic device, and the like.

 1 5
 It ·k -noted thnt...

...of information relative to the me@ia content
28
file including, bat not limited to, **song** title, artist name, album
title, artist bio, and other features such as purchasc inquiries, advc...
A, 5B, 5C, SD, and 6A, which can then access and
37
utilize the delivered **high**   **fidelity** media content, enabling its
user(s) to experience the media content, e.&, listen to it...combination
of software and hardware.

The present embodiment provides a mechanism for restricting recording of
high   **fidelity** media content delivered via one or more communication
networks. The present embodiment delivers the **high**   **fidelity** media
content to registered clients while preventing unauthorized clients from
directly receiving media content from...

...thst the media content in content server 251 can be, but is not limited

to, **high fidelity** music, audio, video, graphics, multimedia, alphanumeric data, and the like. The media content play list...

...associated with the desired media content that CaL, iiiUlude, but is not limited
to, a **song** , an audio clip, a video clip, a picture, a multimedia clip ., an alphanumeric document, or...

...1.

In step 73 8 of Figure 7C, content server 25 1 transmits the requested **high fidelity** media lo contentioclientcompuiersystem21O. Itisnotedthateachmediacontentfiledeliveredtoelient computer systern 21 0 rark have a header attached thereto, prior...

...video clips, and the like.
In step 740 of Figure 7C, upon receiving the requested **high fidelity** media content from 1 5 conUait scrvcr 25 1the present embodiment causes client computer S...

...in a manner that restricts unauthorized redistribution.

For example, the present embodiment can cause the **high fidelity** media content to be stored in a volatile memory &vice, utilizing one or more hidden...

...be cached for a limited period of time. Altornutivcly, the prosmt' embodiment can cause the **high fidelity** media content to be stored in a non-volatile mernory devicep e.g., 103 or...of Figures 5A, 5B, 5C, and 51D, which can then access and utilize the delivered **high fidelity** media content, enabling its-@;user(s) to oxpcricncc- the media content, e.g., liston to...

...Advantageously, by utilizing multiple content servers, e.g.-, media delivery point 804-816, to provide **high fidelity** media content to client computer systems, e.g., 21 0-2130, located throughout the world... picture academy member for their review of a movie, a record industry critic to review **songs** thar may be released on a new compact disc, etc. Alternatively, demonstration and/or pre...on media storage device 999. If media content 200 I-N are audio tracks or **songs** , then output de,vicc 1370 is an audio or'sound card for outpinting music; via...

 15/3,K/6   (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01066614   **Image available**
METHOD AND SYSTEM FOR MEDIA
PROCEDE ET SYSTEME POUR CONTENU MULTIMEDIA
Patent Applicant/Inventor:
  RISAN Hank, 515 Washington Street, Santa Cruz, CA 95060, US, US
    (Residence), US (Nationality)
  FITZGERALD Edward Vincent, 100 Peach Terrace, Santa Cruz, CA 95060, US,
    US (Residence), US (Nationality)
Legal Representative:
  GALLENSON Mavis S (et al) (agent), Ladas & Parry, 5670 Wilshire
    Boulevard, Suite 2100, Los Angeles, CA 90036, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200396340 A2 20031120 (WO 0396340)

Application: WO 2003US14878 20030510   (PCT/WO US03014878)
Priority Application: US 2002379979 20020510; US 2002378011 20020510; US
    2002218241 20020813; US 2002235293 20020904; US 2002304390 20021125; US
    2002325243 20021218; US 2003364643 20030210; US 2003451231 20030228; US
    2003430843 20030505; US 2003430477 20030505
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE
  SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 222812

Main International Patent Class (v7): **G06F-001/00**
Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
...   streaming music from a web site wherein the computer user typically
  does not choose the **songs** that he or she listens to but instead
  receives broadcast music. However, it should be...
...One of the disadvantages is that the computer user is unable to choose
  11
  specific **songs** to listen to and have them delivered to his or her
  computer "ondemand." Another disadvantage...

...distribution of music, it may be thwarted by simply changing the file
  name of the **song** thereby enabling it to continue to be distributed f
  reely.

  Another disadvantage associated with the...

...concerned with quality and/or does not even have the tools necessary to
  produce a **high**   fidelity product. A further disadvantage associated
  with this music file sharing technique is that as more...

...streaming music from a web site wherein the computer user typically does
  not choose the **songs** that he or she listens to but instead receives
  broadcast music. However, it should be...

...music.

  One of the disadvantages is that the computer user is unable to choose
  specific **songs** to listen to and have them delivered to his or her
  computer "ondemand." Another disadvantage...

...distribution of music, it may be thwarted by simply changing the file
  name of the **song** thereby enabling it to continue to be distributed f
  reely.

  Another disadvantage associated with the...

...with quality and/or does not even have the
16
tools necessary to produce a **high fidelity** product. A further
disadvantage associated with this music file sharing technique is that as
more...

...files, e.g., IVIP3 files, and video data such as that found in moving
pictures **files** , e.g., **MPEG** , MOV, and AVI **files** , to name a few. In
fact, nearly any type of data can be stored and...39
Section 3.

Accordingly, a need exists for a method and system for delivering
"ondemand" **high fidelity** music to computer systems·via the Internet
which does not involve proprietary audio players and...

...the above mentioned needs.

Specifically, one embodiment of the present invention enables delivery of
"ondemand" **high fidelity** media content to computers via the Internet
while restricting unauthorized users from directly retrieving media...

...invention.

Section 4.

Accordingly, a need exists for a method and system for delivering
"ondemand" **high fidelity** music to computer systems via the Internet
which does not involve proprietary audio players and...

...mentioned needs.

Specifically, one embodiment of the present invention enables global
delivery of "on-demand" **high fidelity** media content to client
computers via a network, such as, the Internet or a wide...statutory
license is defined as a non-interactive license, meaning the user cannot
select the **song** . Further, a caveat of this type of broadcast license is
that a user must not...

...system accelerators, progress bars, save functions, pause functions,
rewind functions, skip track functions, forward track **preview** , copying
to **CD** , copying to a portable **electronic** device, and the like.

It is noted that the term govern or governing, for purposes...

...a display of information relative to the media content file including,
but not limited to, **song** title, artist name, album title, artist bio,
and other features such as purchase inquiries, advertising...or a
combination thereof, to be active when a recording operation is initiated
simultaneously with **playback** of secured media **files** , e.g., **audio
files** . Custom device drivers are well known and can be coded and
implemented in a variety...

...Figures 5A, 513, 5C, 5D, and 6A, which can then access and utilize the
delivered **high fidelity** media content, enabling its user(s) to
experience the media content, e.g., listen to...of software and hardware.

114
The present embodiment provides a mechanism for restricting recording of
high fidelity media content delivered via one or more communication
networks. The present embodiment delivers the **high fidelity** media

content to registered clients while preventing unauthorized clients from directly receiving media content from...that the media content in content server 251 can be, but is not limited to, **high fidelity** music, audio, video, graphics, multimedia, alphanumeric data, and the like. The media content play list...

...associated with the desired media content that can include, but is not limited to, a **song** , an audio clip, a video clip, a picture, a multimedia clip, an alphanumeric document, or...

...25 1.

In step 73 8 of Figure 7C, content server 251 transmits the requested **high fidelity** media content to client computer system 210. It is noted that each media content file...

...video clips, and the like.

In step 740 of Figure 7C, upon receiving the requested **high fidelity** media content from content server 25 1, the present embodiment causes client computer system 21...

...in a manner that restricts unauthorized redistribution.

For example, the present embodiment can cause the **high fidelity** media content to be stored in a volatile memory device, utilizing one or more hidden...

...be cached for a limited period of time. Alternatively, the present embodiment can cause the **high fidelity** media content to be stored in a non-volatile memory device, e.g., 1 03...

...Figures 5A, 513, 5 C, and 5D, which can then access and utilize the delivered **high fidelity** media content, enabling its user(s) to experience the media content, e.g., listen to...

...Advantageously, by utilizing multiple content servers, e,g., media delivery point 804-816, to provide **high fidelity** media content to client computer systems, e.g., 210-230, located throughout the world,

```
coininunication...my $what = n";
my $whole
request
my.$bad
monkey0
my $,Whaz
method
my $-,vhacsong =
my $ song -name = " song -;
my $what-list = "list";
my $wbat
:version
my $Eirst-line
my $u
a
line =
my...
```

...A-Zj+)
s+((
S]+)

```
s+HTTP
/([
d
.]+)
s*/)(
$whole-request = $what;
$what-method = $1;
$-,vhat
  song  = $2;
Swhat-version = $3;
#print " song  request $what
  song
n";
$what- song  =- /
?(.*)/;
Suser
id = $1;
#print O
tuser id = $user@jd
n*;
)else(
print " sending bad client...

...tried again sent to ring of hell
n*;
exit(l);
print "method is > $what
Method<  song  is >$what
  song < version is >$-what-version<
n";
if ($what-pethod !- /(GETIHEAD)/i)
exit(l);
# now look 'em...

...No access -----if($request =- /Web.access/io) ( $ok Sripper = 1;
$request =-I.*-.
s*(.+)$I; $ua ------  mP3  CLIENT INFO ------ if($request
/Windows-Media-Player/io) Sck = 0; $nsplayer = 1; $request. =-I.+:
s...

...on
$counter++;
I #end while
iE(Sdebug)(
print "User Agent = $ua
n";
print "request = Swhat
  song
n";
print $client 'HTTP/$what
.yersion 3C,2 Found
r
n';
#print ' I told him...

...guys --------------
if($real)(
print $client oLocation: htto://Sreal
.clest-url:aO/$mp3
root
```

```
Oir$what- song
r
n";
print "nsplayer or $real player
n*;
if(Snsplayer)(
print $client "Location: http.//Sreal...
```

```
...r . 0 $
 s r
#print $client *Location- httol//Sreal
.(Iest
url:8000/$shout
cast-dirSwhat- song
r
n";
#print "Location: http://$real - -.c
  song
r
n';
dest
url:8000/S='rout astdir$what
Print
#=== send to shoutcast ==== 4
if($ok)(
print $client "Location: htto://$real
@dest
url/$:7@o3-root-@dir$what- song
nn;
print $client oLocation: http-//Sreal-.@dest
url:8000/$shout-cast-dir$what- song
r
n";
#print -
nLocation: http-//$real-dest
u--1/$np3-root-Oir$whatsong
n";
9...
```

```
...n";
 if($nostream)f
print $client *Location: http://$real
des-@
url/Scp3
root--Oir$what- song
r
nn;
print "other player that doesn't need to be told what port to...
```

```
...real 0;
print $client -
r
n
r
n";
print "
ndone
n";
print
close $Client;
$,Arhat
```

```
 song  A/ -rrp3/io;
Swhat
list $1;
$ song -na.me $2;
#trash filter
if(! defined($wIhat-list))(
print "no list $remote-host
ip
n'; $what
list "none
n";
if(! defined($songname))
print "no song
name $remote
host
ip
n"; $ song  me = "none";
-,nw
$bad =1;
if(! defined($remote-hostname))(
print "no hostname $remote
host-ip...

...calls the "go- script to restart redirs
require "dir
list@;
require "new@
dir@
Iist";
rry $ Song -root = "/usr/local/apac-e/s;--Iesllmpb.tv/ht@docs";
my $high =$platinwn;
rwy @mid...

...defmid = 0;
my $deflow = 0;
my $defxlow = 0;
if(defined($high) && defined($newhigh))(
print "
nmv $ song
root/Shigh $ song -root/$newhigh
n';
.mv $songroot/Shigh $songroot/$newhigh',
print "In -s $ song
root/$newhigh $ song -roo0$high
n";
In -s $ song  root/$newhigh $ song -root/$high
$defhigh = 1;
ifidefined($m1d) && defined(Snewmid))(
print "
nmv $sorig
Xoot/$mid $songroot/Snew:,.dd
n";
mv $ song -root/$mid $ song  root/Snewmid*
print -In -s $ song -root/$newmid $ song -root/$,-Liid
n";
IIn -s $songroot/$newmid $ song -root/$mid
$defmid = 1;
if(defined($Iow) && defined($newlow))(
print "
nmv $ song -root/$low $ song -root/$newlow
```

```
n';
mv $ song @-rootl$low $ song -root/Snewlow';
print "in -s $songroot/$newlow $ song
root/SIow
n";
In -s $ song -root/$newlow $ song -root/$Iow
$deflow = 1;
if(defined($.xlow) && defined(Snewxlow))
print "
nmv $songroot/$xlow $ song
root/$ne-@r<lo,.q
n";
mv Ssong
root/$xlow $songroot/$newxlow';
print -In -s $songroot/SnewxIow $ song -root/$xlow
n";
.In -s $ song
root/$newxlow $ song
root/$xlow
$defxlow = 1;
#now call kill & restart mstreem scripts
/kill.pk'; # just in case...

...10;
now remove old links.

if(defined($high) && defined($newhigh) && ($high ne $newhigh))
print"
nrm $ song -root/Shigh
nft;
rm $ song  root/$high';
if (defined0mid) && deEined($new=d) Omid ne Snewmid) C
print *rm $ song
root/$mid
n";
'rm $ song
root/$rnid'
if (defined($Iow) && defined ($newlow) ($low ne $newlow)
print "rm $ song -root/$low
n";
@rm $ song
root/$low@;
if (defined($xIow) && deEined($new)clow) && ( $xlow ne $newxlow)
print "rm $ song
root/$xlow
n";
'rm $ song -root/$Xlow'
I
if (Sdefhigh && $defmid && $deflow && Sdefxlow)(
print Ocp dir-list dir-list
old...
```

...and never reside on the users' machine.

Additionally, this script records the users IP address, **song** requested, and transfer size.

This allows The MoM1 to accurately meter royalty payments, clock usage and transfers, and keep a log of **song** list popularity.

This combination will reduce the risks identified above, provide
compensation where due, and...A-Zj+)

```
s+(@S] +)
s+HTTPV.(@d
.]+)
s*/) (
$whole-request = Swhat;
Mat-method = $ 1;
$what   song   $2;
$what- version S3;
)else{
print " $short name: sending bad client HTrP/ 1. I 400...
```

...Sclient'HTTP/l. 1 400, "Bad Request...

```
exit(l);
h! print "method is > $what method<   song   is >$what soncr<,version is
>$what version<
n";
if ($what-method !- /(GETIHEAD)/i)
exit(l...
```

...and on

```
$counter++;
)#end while
if($debug) (
print "User Agent = $ua
n";
print "request = $what- song  @n";
9 999999 Rate controls to prevent excessive access to content
$remote - host- ip
# my...
```

...Ssth0->fmish(;

```
i4$loser-count <= 0 )f
my $sql "SELECT COUNT(request -time) as number   songs
reqs
Pt$sql "MINUTE(MIN(request -tir@e)) - MINUTE(nowo as duration
Ssq] .= "FROM rate...
```

...prepare(Ssql);

```
Ssth->execute(;
my $ref = $sth->fetchrow hashref(;
171
my Ssong count = Sref->@number   songs   reqs');
9my Scluration = (Sref->@'duration'});
Ssth->finish(;
print "
n Song  count is Ssong count
n" if $debug
if(Ssona -count >= Slimit)@
Sspee@er = 1;
Sok...
```

...Sua

```
",now(
my Ssth I = Sdbh->prepare(Ssql I);
Ssthl->execute(;
Ssthl->fmish(;
)Prend if song .
count
```

```
)else@
print "
n loser is in loser table
n" if $debug;
$speeder = I
Sok...

...r
n"; 9 print $client "Location:
http://$real-dest-url:80/$mp3-root-dir$what- song
r
n"; print "
nLocation: http://$real-dest url:80/$mp3 root dirMat   song ?arMpass key
r
n" if $debug;
print "found nsplaver or real player
n" if $debug...

...dir$what-sono,
r
n"; print "
nLocation: http://$real dest url/Smp3 root dir$what   song ?arf@-Spass key
n" if $debug; 9 print "other player that doesn't need to...

...print Wient 1'
An.
Ant';
9 print "
ndone
n";
print
$dbh->disconnect(;
close $client;
$what   song   =- A/(.+)V(.+).mp3/io;
- 0
$what list = $1;
$sona name = $2;
Arash filter
if(! defined($what-list)){
print "$short-name: no list
n"; $what-list "none
n";
iff! defined($ song
narne))(
print "$short name: no  song  name $remote host ip
n"; $ song  name "none";
$bad =1;
iff! defined($remote-hostname))(
print "$short-name: no hostname
n"; $remote...
```

...from that location while on their site.
Preferred Embodiment.

The musical play lists (lists of **songs** available) of all varieties are loaded from the MoMl .
0
server and passed to a...

...prior implementations, the MoMI site provides (via the choose.cgi

program) the ability to select **songs** at whimsy from the available
content, and save them for future re-use. Alternately, they...

```
...image
path = "http:Hwww.themomi.org/museum/images";
my $image
url = `www.themomi.org5rootdir";
my $ song
yoot = "../htdocs/";
my $earthc = "themomi.earthe-net";
4---------------- Start Code ------------------------------------------
$1=1; #flush
print "Content...
...RaiseError'=> 1)) or die "can't connect to db";
my @play
list,
my Urtist;
my $ song
pame;
print<<HTML DONE;
<html>
<head>
<META NAME="Organization" C0NTENT="wwwAhemomi.orjg'5
<META NAME...

...Select All in Category ---</font>";
print "</td></tr>";
my $sql I = "select pl
index,artist. song  name from m3u where playlist name like
"$playlist-narneV"';
# print Isqll<br>";
my $sthl. = $dbh...

...refl = $sthl ->fetchrow hashrefo
my $id = $refl -> @'pljndex') - $aj@iist = $refl ->{'artist'); $sona
name $refl
>(' song
pame'};
$artist =- s/-/ /g;
$ song
pame =- sl-/ /g;
print "<tr><td><input type=checkbox name=Y$idV5</td>
n"-,
print...

...all playlists" query
------------------------------------------- -
-------------------------------parse param list for "all in playlist"
request = "d+some num" & individual  songs  "num"
----------------------------------------------------------------
----------------
my @ song
list;
#my $pLlimit = 5;
#my $songjimit = 50;
#my $pl-count = 1;
foreach (paramo I
push(@ song
list,$ #just a  song  number
) if/A
```

```
d+$/;
print 11<br>$-11 if /A
d+$/.-,
181
if (/A d...

...ends here
#print "<br>$qry V;
#end if anything in pjist array
-------------------------------------------------------------
Build individually selected songs  query string
t)
-------------------------------------------------------------
if(@songjist){ #anyone home in  song  lists? go for it!
my @sonor opy = @songjist;
,=>2c
my $first = shift @songjist;
$qry2 = "SELECT * FROM m3u WHERE pLindex fN ($first"
foreach my $blarg (@ song
list)f
#Print "<br>=". @songjist;
#print `<br>@songjist";
182
$qry2 SblarcF
$qry2
$qry2.= " limit $soncy limit"; 4add limit to number of  songs
#print `<br>$qry2";
#end if anything in  song  Ii
ist array
-------------------------------------------------------------
Now create mj3u playlist file
Execute query statement(s) and write file...

...hashrefo
my $playlist-name = $refl -> f'playlist-name'};
my $pl
header = Srefl -> {'pl
header');

my $ song
@url = $refl->f' song
@url'j;
$ song
@url =- s/8080/8081/g;
print OUTFILE "$p@
header
n$ song
url
n%
9 end while
#Print `<b>iny list -copy array = @list-copy<Ib><br...

...183
print "<tr><td><f6nt size=2 color--white face arial.san serif. helvetica
>All Songs
from <b>V'$listV'</b></font></td
></tr>
n";
4 end foreach
)4end if $qry I is defined
```

```
if($qry2) f
4 now do the selected  songs
my $sth2 = $dbh->prepare($qry2);
$sth22->execute(;
while (my $ref2 = $sth2->fetchrow - hashrefo
my $artist = $ref2->@'artist');
my $songjiame = $ref2->{' song
pame');
my $pl -header = $ref2->{'pl
header};
my $ Song
@url = $ref2-> (' song
yrl'};
#$print "$pl,
header<br>$ song
@url<br>"
$artist =- sl /g;
$ song
panie =- S/ / /@CF;
$ song
@url =- s/8080/8081/g;
print "<tr><td><font size=2 color=white face arial.san serif, helvetica
>$artist
$ song
name</font></td></tr>";
print OUTFILE `$pI
header
n$ song
url
n";
# end while
end if sqry2 is defined
close OUTFILE;
print "</table>";
print "<center...
```

...locally
 You will only be downloading one
small m3u file which will
#play the songs from MPB.TV whenever you wish
#</td></tr>
print "</table>

II...

...content at that location.

Prior Implementations*
None
Preferred Embodiment.
The musical play lists (lists of songs available) of all varieties are
loaded from the MoMI server and passed to a Common...

...random number has been selected, the actual process of applying this to
the array of song titles begins.

ID
186
The criteria for selecting a song for inclusion in the random play list
is three-fold.

7@
1) There cannot be more than 50 songs total in the list;

2) The selection Must Come from no more than 20 play...

...number
1@ C12
is used as the index into the array and will select the **song** title that
resides in that location in the array. If that title has been previously
...

...are fulfilled.
The actual code is provided as appendix 1-iii.

The resulting list of **song** titles are then formatted into a usable
playlist (or M3U file as it
CY
is...

...my ($play
list -name); #variable to create random file name for download
my ($how-many
  songs); # = total number of **songs** in all the dirs.

my (@thename); #array to contain the name of the randomly selected **song**
my (@thepath); #array to contain the URL path of the randomly selected
song my ($showname); #used to find the portion of name we want to
display.

my ($ **song**
@url);
my (@theheader);
my (@artist);
my (Urtist);
my ($theDate);
#--------------------------- user ajustable parainerters
----
my $max-num- **songs** = 3 K # set limit of how many **songs** to display
my $maxdirs = 20; #set limit on number of dirs to look in
my...

...mp'3 "; #path from cgi script to mp3 directory
my $center-col-size = ($max-num- **songs** /2 + 1);
$1=1; #flush the buffer
use strict;
189
use CGI qw(:standard);
use...

...all file io before displaying the names in list
190
my $sql = "select pI header, **song** ame, **song** url,art'st from m3u order
by rand(limit
g n
ID
$max num. sonors...
...sth->execute(-.

while (my $ref = $sth->fetchrow hashrefo
my $pl -header = $ref->{'pj
header');
my $ **Song**
name = $ref->f'sona name');

```
my $ song
@url = $ref->(' song
@url'};
my $artist = $ref-> {'artist'};
push (@thename,$ song
jiame);
push (@thepath,$ song
url);
push (@theheader,$pl,.
header);
push (@ar-tist,$artist);
open(OUTFILE,">../htdocs/temp/Spla'y list name").

#write out file header
print OUTFILE ".#EXTM3TAn";
'for($i=O;$i<$max-num- Songs ;$i++){
print OUTFILE "$theheader[$i]
n";
$ song
@url = 'Sthepath[$i]";
$ song  url=-s/8080/8081/io;
print OUTFILE "$ song
urI
n";
)#end for
close OUTFILE;
#------------------------------------------------------------------------
-------
#now show'em what they have in the list...

...HERE
print "</td>";
print "<td width=45%></td></tr>";
for($i=O;$i<$max-num- songs ;$i++){
my $flip
flop = ($i % 2 );
$shownarne = $thename[$i];
Mhowname =- /EXTINF:
d+,(.+)/i;
$shownarne =- s...br> You will only be downloading one
small m'3u file which will
#play the  songs  from MPB.TV whenever you wish</font><br>
#</td></tr>
print "</table><br><br>";
print...

...my $what = "@;
my $whole
request
my $bad -monkey 0
my $tihat
@me@hod
my $wha@
  song  =
my Ssongname = " song -;
my $what-list =-"list";
my Swhat
yersiori
my $first line
my $u
```

```
a
l;ne...

...A-Z]+)
S+([
S]+)
s+HTTP
/([
d
.)-)
s*/)(
$whole-recruest = $what;
$,what-method = $1;
$-what- song  = $2;
Swhat
:vers.4on = $3;
# print " song  request $-,qhat
 song
n";
$what- song  =
$user
id = $1;
# print n
tuser id = Suser=
id
n';
)else(
print " sending bad client...

...again sent to ring of hell
nm;
exit(l);
print "method is > $what -so,
-inethod< song  is >Swhat ng< version is >$what
-:Version<
n";
if ($what
;nethod !- /(GETIRFAD)/i).
exit(l...

...an
$counter++;
)#end while
if($debug)f
print "User Agent = $ua
n';
print *request = $-,qbat
 song
n";
print $client -HTTP/$what version 302 Found
r
n";
#print " I told him HTTP...

...n*;
if($nsplayer)(
print $client "Location: http://$reaI
.@dest url:80/$rnp3
root-dir$what
 song
r
```

```
no;
#print $client "Location: http://Sreal-des@
url:8000/Sshout-cast
dir$-.,;nat- song
r
n";
#print "Location: http://$real-dest
-url:8000/$shout-castdir$what- song
r
n';
print "nsplayer
n";
#=== send to shoutcast
if($ok) (
print $client "Location: http://$real
dest
@urI/$mp3 root dir$what
  song
-.I";
# print $client wLocation:
http://$real-dest-url:80'@0/$sKout-cast-dir$-.%riat- song
r
n";
#print o
nLocation: http://$real
@dest
url/$mp3 -root
dir$what- song
n";
# print "Ok = other player that doesn't need to be told what port to...

...to
n";
if($nostream) (
print $client "Location: http://$real
dest
url/$mp3 -root
@dir$what- song
r
n";
print mother player that doesn't need to be told what port to...

...print $client "
r
n
r
n";
# print '
ndone
n";
# print `....... ........... ***`*`***
n
n-;
close $client;
$what- song  /
/(.+)
/(.+)-mp3Iic;
Swhat-list $1;
$ song -name $2;
,trash filter
if(! deEined($what
```

```
list)) [
print 'no list Sremote
host-ip
r.'; s-what-list "none
n';
if(! defined(Ssong-na-,ne))
print "no. song
name $remote
host
ip
n"; $ song -name = "none";
$bad =1;
if(! defined($remote-hostname)) (
print "no hostname $remote-host
ip
n...

...defrid = 0;
 my $deflow = 0;
 rp.y $defxlow = 0;
 ifidefined($high) && defined($newhigh)) (
 print '
nmv $ song
root/$high $ song
root/$newhigh
n";
 mv $ song -rootl$high $ song  root/$newhigh';
 print "In -s $ song -root/Snewhigh $songroot/$high
 n";
 .In -s $ song
root/$newhigh $ song -root/Shigh
$defhigh = 1;
if(defined($mid) && defined($newmid)) (
print "
nmv $songrootl$mid $ song -root/$newmid
n";
 mv $ song  root/$mid $ song  root/$newmid';
 print oln -s $ song
root/$newmid $ song -root/$mid
n";
In -s $ song  root/$neNm-;d $ song
root/$m-;d
$def;nid
if(defined($low) && defined($newlow)
print "
rurrv $ song
root/$low $ song -root/$newIow
n";
Imv $ song -root/$low Ssongroot/$new,low';
print "in -s $songroot/$newIow $ song -root/$Iow
n";
In -s $ song -root/$newlcw $ song  root/$low
$deflow
if(defir.ad($xlow) && defined($newxlow))
print @
nmv $ song
root/$xlow $ song -root/$newxlow
r";
Imv $ song
root/$xlow, $ song
```

```
,root/$newxIow';
print "in -s $ songr
root/$newxlow $songroot/$xlow
n";
.In -s $songroot/$new.Klow $ song -root/Sxlow
$defxlow = 1;
#now call kill restart mstreem scripts
./kill.pk'; just in case...

...10;
now remove old links.

if (defined ($high) && defined ($newhigh) && ($high ne $newhigh)
print"knrm $ song
root/$high
no;
rm $ song  root/$high';
if(defir-ed($mid) && defined(Snewmid) && ($mid ne $ne@r;mid))[
print "rm $ song
root/$mid
n";
@rm $ song -root/$mid-;
if(defined($Iow) && defined($newlow) && ($low ne $newlow))[
print *rm $songroot/$Iow
n";
'rm $so.-,g-root/$low%;
if (defined ($xlow) && defined ($newxlow) $xlow ne $newxlow)
Print "rm $ song
root/$xlow
n";
'rm $. song  root/sxiow@;
if ($defh.;gh && $defmid && $deflow && $defxlow)f
print cp dir list dir-iist...and are supported by organizations that are
perpetual.

are aval 0
The selection of individual  songs  or play lists create a specialized
format of the playlist,
Z:;l
which while beinor...

...Sclient'HTTP/1.1 400, "Bad Request...

exit(l);
9 print "method is > $what ethod<  song  is >$what  song < version is
>Swhat version<
n";
@M
if ($what-Method !- /(GETIHEAD)/i)
exit(l);
#now loop...

...on
$counter++;
)#end while
if($debug
0
print "User Acent = $ua
n";
print "request Swhat- song
```

```
·n";
9##9-4#9 Rate controls to·prevent excessive access to content
$remote -host...

...sthO->finish(;
9
if($loser-count <= 0
my Ssql = "SELECT COUNT(request time) as number   song   eqs
#$sql.= "MINUTE(MIN(request -time)) - MINUTE(nowo as duration
$sql "FROM rate - control-0...

...prepare($sqI);
$sth->execute(;·
my $ref = $sth->fetchrow-hashref(;
217
my Ssona count= Sref->@'number   songs   reqs');
"my $duration = (Sref->{'duration'});
Ssth->Flnish(;
print "
n Soncy count is Ssona count
n...
...defined(Swhat-list))(
print `$short-narne: no list
n"; $what-list "none
n";
iff! defined($ song
narne)){
print 'Ishort-narne: no   song  -narne $remote-host-ip
n`; $ song -name "none";
$bad =1;
if(! defined($remote-hostname))
print "$short-narne: no hostname
n"; $remote...

...at The MoMl" Encoded music
C'
7
files, by allowing the guest·to select individUal   songs   from all of the
available lists present at this location -for their listening pleasure.

ID...

...is pefpCtUal, meaning that the list is the list until the user edits out
the   songs  'that they no longer want on the list. There is only one list
0 1...

...from that location while on their site.
```

·Preferred Embodiment.

The musical play lists (lists of   songs   available) of all varieties are
loaded from the MoMl
Z
server and passed to a...

...prior implementations, the MoM1 site provides (via the choose.cgi
program) the ability to select   songs   at whimsy from the available
content, and save them for future re-use. Alternately, they...

...I 1) or die "can't connect to db",

```
my @play
list;
my $artist;
my $ song
name;
print<<HTML. DONE;
<html>
<head>
<META NAME="Organization" CONTENT=`www.themomi.org">
<META NAME...

...my $refl = $sthl->fetchrow-hashrefo f
my$id=$refl->('pI index'l;$artist=$refl->@'artist'};$ song  name=$refl
>@' song  arne');
$artist =- s/ / 1g.

$ songg
name S/-//g;
print "<tr><td><input type=checkbox name=V'$idV'></td>
n"-,
print...

...all playlists" query
----------------------------------------------------------------------
----------------parse param list for "all in playlist" request = "d+some
num" & individual  songs  11num"
----------------------------------------------------------------------
----------------
my @ song . list;
#my $pl
limit = 5;
4my $sona imit = 50;
@@j
#my $pj
count = 1;
foreach (paramo f
push(@songjist,$ 4just a  song  number
) if //'*
d+$/;
9 print "<br>$-" if //"
d+$/;
227
-f(/A
d
d+$/) #all in...

...ends here
#print "<br>$qry V;
#end if anything in pjist array
-----------------------------------------------------------
Build individually selected  songs  query strincy
Z@
-----------------------------------------------------------
if(@soncr list)@ #anyone home in  song  lists? go for it!
Z:P- tD
my @ song  copy= @songjist;
zr
my $first = shift @ song
list;
$qry2 = "SELECT * FROM m3u WHERE pl
```

```
index IN ($first"
foreach my $blarg (@songjist)f
#Print "<br>=". @songjist;
#print "<br>@songjist";
228
$qiT2 Warg
$qry2
9 $qry2 limit $ song  limit"; gadd limit to number of soncys
tD- -'D
#print `<br>$qry2";
t-.end if...
...MIM31111
-------------------------------------------------------------------------
print "<center><f6nt size=2 color--white face = arial,san serif,
helvetica >";
print "<b> Songs  in your play list:<b></fbnt></center>F';
print " <table align=center>";
open(OUTFILE,">../htdocs...f'playlist-name'l;
my $pI -header = $refl. -> {'pl-header');
my $SonoF url = $refl->f' song  url');
$ song  url=-s/8080/8081/g;
print OUTFILE "$pI-header
n$ song
@url
n";
4 end while
4print "<b>my list- copy array = @list-copy</b><br...

...end foreach
j#end if $qryl is defined
if($qry2) @
Pr now do the selected  songs
my $sth2 = $dbh->prepare($qry2);
$sth2->execute(;
while (my keQ == $sth2->fetchrow - hashrefo f
my $artist = $ref2->{'artist');
my $ song -jiame = $ref2->{' song
name'j;
my $PI-header = $ref2->{'pI-header');
my $ Song
@url = $ref22->j' song
yrI'};
9$p 'nt "$PI header<br>$ song
171 -
@url<br>"
$artist =- s/ //g;
Uong .. name =- S/ /g;
$ song
url =- s/8080/8081/g;
print '1<tr><td><font size=2 color--white face arial,san serif, helvetica
>$artist
$ song
jiame</font></td></tr>";
print OUTFILE "$pj
header
n$ song
urI
n`;
4 end while
end if $qry2 is defined
```

```
close OUTFILE;
print "</table>"
7...
```

...content at that location.

Prior Implementations.

None
Preferred Embodiment.

The musical play lists (lists of **songs** available) of all varieties are loaded from the MoMI server and passed to a Common...

...to the array of sonor titles becrins.

```
0 ID
232
```

The criteria for selecting a **song** for inclusion in the random play list is three-fold.

1) There cannot be more...

...are fulfilled.

The actual code is provided as appendix 2-III.

The resulting list of **song** titles are then formatted into a usable playlist (or M3U file as it
0
is...

...my ($play
list -name); #variable to create random file name for download
my ($how many **songs**); hE = total number of **songs** in all the dirs.

```
my (@thename); #array to contain the name of the randomly selected song
my (@thepath); 4array to contain the URL path of the randomly selected
song my ($showname); #used to find the portion of name we want to
display.

my ($ song
yrl);
my (@theheader);
my (@artist);
my ($artist);
my ($theDate);
#----------------------------- user ajustable paramer-ters
--------------------------
my $max num songs  = 34; # set limit of how many songs  to display
my $maxdirs = 20; #set limit on number of dirs to look in
my...
```

...htdocs/mp3"; #path from cgi script to mp3 directory
```
my $center col size = ($max nurn songs  /2 + 1);
$1=1; #flush the buffer
use strict;
235
use CGI qw(:standard);
use...
```

Claim
...   Claims 4 or 5, wherein said media content is selected from an audio
   clip, a **song** , a video clip, a picture, a graphics picture, and a
   multimedia clip.

   12 The method...Claims 22 or 23, wherein said media content is selected
   from an audio clip, a **song** , a video clip, a picture, a graphics
   picture, and a multimedia clip.

   32 The system...

15/3,K/7   (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00973248   **Image available**
IMPROVED MEDIA DELIVERY PLATFORM
PLATE-FORME DE DISTRIBUTION DE CONTENUS DE SUPPORTS AMELIOREE
Patent Applicant/Assignee:
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     US, US (Residence), US (Nationality), (For all designated states
     except: US)
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  FREIDSON Robert I, 25 Kamennoostrovsky Ave., Apt. 61, SaintPetersburg
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Legal Representative:
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Patent and Priority Information (Country, Number, Date):
  Patent: WO 200303235 A1 20030109 (WO 0303235)
  Application: WO 2002US20443 20020626   (PCT/WO US0220443)
  Priority Application: US 2001301681 20010627; US 2001303115 20010703; US
     2001312450 20010814; US 2001343159 20011026
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
  TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 17328

Main International Patent Class (v7): **G06F-015/16**
Fulltext Availability:
  Detailed Description
  Claims

English Abstract
  ...cellular phones and landline telephones with real sound recordings
  including real music, which may be **songs** lifted from copyright
  registered CD tracks, and may comprise human voice, various instrument

sounds, and...

Detailed Description
... by mail.

Also, cell phones may be programmed to ring with a tune of a **song** or musical composition, and have become increasingly popular. However, cellular phones currently on the market...

...deliver "ring tones" with an electronic chime or ring tone rather than an actual recorded **song** , human voice, or musical composition. Additionally, these ring tones must be factory installed in the...an improved method for delivery and play back of sound and image files which include **songs** , musical compositions, and other sound recordings cartoons, movies, television shows, or any other type of...consumers' preselected layer or telephone.

Also, a tracking feature for keeping a record of every **song** downloaded and/or each time a **song** is played can be incorporated for providing performing rights organizations or songwriters3 organizations with an... unique method for delivery, storage, and play back of sound and image files which include **songs** , musical compositions, or other sound recordings, cartoons, movies, television shows, or any other type of... category of music switches to display the name of the artist and title of the **song** or composition being played. Once the user clicks upon that icon, he can select the next **song** and hear the **song** while at the same time seeing the name of the artist and **song** title. The user can cycle through all the **songs** within that category using this approach very quickly to not only browse but to also...simply moves the cursor to another icon and repeats this procedure. To select a particular **song** the user double clicks on the **song** , which is then included in a collection of selected **songs** to be downloaded later.

The website may be used as a shopping forum where consumers...with sound clips, an entire music file may also be used, whereby for example, a **song** may start playing and continue until the user picks up the telephone. (Of course, entire...or a "cluster" feature which rings a "cluster clip" comprising a multiple number of clip **segments** from a single **song** , musical composition, or other sound recording played in sequence.

Other features will allow the telephone...recipient of the call. (For example, the caller may sing or record a "Happy Birthday" **song.**) Also, a telephone used by more than one user may utilize sound clips for - 10 ...phone attachment is about 1.5" x 1.5" x.25" and includes a small **high fidelity** built-in speaker. The accessory unit may connect into the AC adapter fixture in the...sound and/or image files. Consumers may be allowed to download free clips of a **song** , musical composition, or other sound recording or movie or other performance onto any of these...

Claim
... received or their duration.

19 The method of Claim I wherein the file is a **segment** of a full **song** , musical composition, or other sound recording.

20 The method of Claim 19 further wherein a...as said alerts.

27 The device of Claim 21, wherein said clips are taken from **songs** , musical compositions, cartoons, movies, television shows, personal

recordings, or a combination thereof.

28 The device...

15/3,K/8   (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00914770   **Image available**
INQUIRY RESPONSE SYSTEM AND METHOD
SYSTEME ET PROCEDE DE REPONSE A UNE REQUETE
Patent Applicant/Assignee:
 PROMEO TECHNOLOGIES INC, 3177-17th Street, San Francisco, CA 94110, US,
   US (Residence), US (Nationality)
Inventor(s):
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 SZETO Tze-Yee, 1761 King Street, Santa Cruz, CA 95060, US,
Legal Representative:
 BEESON Donald L (agent), Suite 2360, One Kaiser Plaza, Oakland, CA 94612,
   US,
Patent and Priority Information (Country, Number, Date):
 Patent: WO 200248896 A1 20020620 (WO 0248896)
 Application: WO 2001US49271 20011217   (PCT/WO US0149271)
 Priority Application: US 2000255800 20001215
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
 AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
 EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
 LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
 TM TR TT TZ UA UG UZ VN YU ZA ZW
 (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 12534

Main International Patent Class (v7): **G06F-015/16**
Fulltext Availability:
 Detailed Description

Detailed Description
... array of products and services, of which the following provide but a
 few examples. A **song** played on the radio may stimulate a demand to
 purchase the **song** by consumers listening to the radio station on which
 the **song** is played. A billboard ad for a product or service may
 stimulate a demand for...

...desire might also be stimulated by a referral or recommendation by a
 friend for a **song** or a movie.) In the case of all such demand stimuli,
 whether external or internal...
...the stimulated demand. For example, the consumer may need the title and
 artist of a **song** heard on the radio and further secondary information,
 such as pricing information and locations where recordings of the **song**
 can be purchased. Or, in the case of an advertisement, whether broadcast,
 in print, or...

...a self-generating audio recording, storage, and retrieval system,
 wherein a purchaser who hears a **song** broadcast over the radio is able

to identify the **song** and artist by calling an 800 number over a touch-tone phone and entering a...

...a central computer. The computer responds to a caller with a voice description of the **song** title and artist. Other examples include product-ordering websites, such as Amazon. corn.

The difficulty...broadcast music. In this case the database might contain a schedule or "playlist" of broadcast **songs** by identified broadcasters and stored responses that are correlated to the broadcaster's playlist. . When...

...1 by the real time inquiry response system 13 which is related to a broadcast **song** heard by the consumer on the radio or TV, the RTIRS causes the system to...

...main categories might in turn pertain to the subject of the inquiry such as a **song** , advertised product or service, movies and concerts.

FIG. 1 also pictorially illustrates how suppliers of...supply a broadcast schedule in the form of a playlist, and perhaps further information regarding **songs** on the playlist, to the category #1 segment of the inquiry response. At the same...

...the real time inquiry response system over a defined period of time for the stored **songs** . Similarly, an advertiser of a product or service may supply ad related information and data...

...can serve up stored audio clips in response to a consumer inquiry related to a **song** or advertisement. Such **audio** clips can be a **segment** of a **song** and/or a voice description of a **song** title or artist, or an audio clip and/or description of an advertisement, or a... well as product/service specific information such as the number of inquiries received for particular **songs** , or the number of inquiries received about particular products or in response to particular advertisements...
...responses can be generated from inquiry content such as a text to voice conversion of **song** titles, and artist names stored as part of the inquiry content.

FIG. 4 illustrates a...

...methods. Generally, the broadcast identification system 65 includes audio recognition engines 67 capable of identifying **songs** or other broadcast materials as they are being played by radio stations. The audio recognition engines identify **songs** received by field recorders 69 using a technique by which unique waveform characteristics or " fingerprints " of the **songs** are matched to the fingerprints of gongs stored in a database of the audio recognition...

...the broadcasters. Over time, the audio recognition engines will build up a library of broadcast **songs** to which future broadcasts can be matched. For broadcast **songs** which cannot be identified through the audio recognition engine's own library of **songs** , an audio discovery system is provided as represented by block 71. The audio discovery system provides unique fingerprints for a comprehensive library of **songs** which are entered in the library through fingerprinters 73. Block 75 generally represents a command...
...69 to the audio recognition engines.

Once the broadcast identification system has identified a broadcast **song** , or other broadcast content, such as an ad, the **song** or ad is immediately added to the content of the inquiry response database so that inquiry responses can include information on the most currently broadcast **song** or ad.

The flow charts in FIGS. 5, 6, 7 and 7A illustrate a method...

...of a source identification would be the identification of a radio station on which a **song** or ad were broadcast. Other possibilities might be the location of a billboard or a...

...can be prompted to enter the call letters of a radio station on which a **song** is heard, or the name and date (or approximate date) of a publication in which...

...or select further locating information (block 83) such as the date and approximate time a **song** was heard, or the product name or advertiser name in the publication previously identified.
With...

...responses can be in the form of one or more audio clips, such as a **song** clip, or a voice response which states a **song** title, or a product description associated with the particular inquiry made. If the consumer is...step a consumer through the interactive voice response system of RTIRS for distinguishing between a **song** or ad category of information and for obtaining information about an ad encountered by the consumer for a fictitious airline called "Acme Airlines".

IVR: "Please say ' **song** ' to get more information about a **song** , say 'ad' to get more information about an ad.

USER: "Ad."
IVR: "Please say the...a consumer through an interactive voice response system of the RTIRS for distinguishing between a **song** and an ad category and for obtai i information about a **song** heard on the radio or TV.

117VR: "Please say ' **song** ' to get more information about a **song** , say 'ad' to get more information about an ad.
USER: " **Song** .

IVR: "Please say the radio station frequency or call letters on which you heard the **song** .

USER: "1050" or "KXOX."
The IVR system then plays back to the consumer station ID...

...If not, the IVR system continues.

IVR: "Here is what just played.

The IVR system **plays** **song** **clip** of last **song** **played** , and gives user a voice message stating the **song** title and artist name, and then continues.

IVR: "Say 'yes' if this is the **song** you are looking for. In order to make it easy for you, we will send you an e-mail with more information regarding this **song** . "

USER: "Yes.
If the user says "no, " the IVR can step the user back through previously
played **songs** corresponding to the broadcaster's playlist and/or invite
the user to specify the approximate time and date the **song** was played.

IVR: "Please say 'purchase' if you would like to purchase this **song** or
album right now."

USER: "Purchase.

The IVR system here issues a request to the database to query what format
the **song** or album is available in for purchase, and the database
returns a text description of...

...the IVR system will issue a request to the database to query prices for
the **song** or album from different retail outlets and a text price list
can be returned to...the driving directions can be printed out in text
form. (Another possible transformation is from **high fidelity** audio to
a lower fidelity audio to permit the response to be delivered over a...

15/3,K/9   (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00862471
PHYSICAL PRESENCE DIGITAL AUTHENTICATION SYSTEM (DEVICE FABRICATION)
SYSTEME D'AUTHENTIFICATION NUMERIQUE D'UNE PRESENCE PHYSIQUE (FABRICATION
    DU DISPOSITIF)
Patent Applicant/Assignee:
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Patent Applicant/Inventor:
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  ANATI Rami, Haetrog Street 16, 38244 Kfar Brandes Haders, IL, IL
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Patent and Priority Information (Country, Number, Date):
  Patent: WO 200195066 A2 20011213 (WO 0195066)
  Application: WO 2001US3874 20010206 (PCT/WO US0103874)
  Priority Application: US 2000180530 20000207; US 2000570399 20000512
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE

```
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
```
Publication Language: English
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Fulltext Word Count: 63267

Main International Patent Class (v7): **G06F**
Fulltext Availability:
  Detailed Description

Detailed Description
... entire audio, soundtrack is sufficient for successful redemption. As
for the quality of the recording, **high fidelity** level is not
necessary and thus low component/fabrication costs and small form factor
sizes...the second oldest audio clip file. This process is circular so
that after the newest **audio clip file** is **played** , the next **audio
clip file** to be **played** corresponds to the oldest **audio** clip **file**
. Of course, one ordinarily skilled in the art can devise other sirrular
schemes to playback...music is played. Sometimes, the radio disc jockey
identifies this music along with several other **songs** that have also
aired, which complicates the identification process for the user. Not
only does the user have to match the identification with the actual **song**
he heard, but he may have to wait for quite some time before the radio
...
...this embodiment of the present invention, the user merely records the a
clip of the **song** and play (inverted exclamation mark)t back to a
central music website. The music website will identify the music
immediately jand also suggest CDs that contain that **song** to purchase.

The mernory 214 provides support for the database server 212 and the
authentication...

 15/3,K/10   (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00825100   **Image available**
PHYSICAL PRESENCE DIGITAL AUTHENTICATION SYSTEM (BROADCAST MEDIA)
**SYSTEME D'AUTHENTIFICATION NUMERIQUE DE PRESENCE PHYSIQUE (SUPPORTS DE
    RADIODIFFUSION)**
Patent Applicant/Assignee:
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    (Residence), IL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
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    (Nationality), (Designated only for: US)
  ANTEBI Amit, Marganit Street 64, Ramat-Gan, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
  LEV Tsvi, Lisin Street 11, 62997 Tel-Aviv, IL, IL (Residence), --
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  COHEN Moshe, Chovevey 47, Tsivon, Tel-Aviv, IL, IL (Residence), IL
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    US (Residence), US (Nationality), (Designated only for: US)
ALTIMAN Nathan, Hachashmonaym Street 39, Tel Aviv, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
ANATI Rami, Haetrog Street 16, 38244 Kfar Brandes Haders, IL, IL
    (Residence), IL (Nationality), (Designated only for: US)
Legal Representative:
  CHOU Chien-Wei (Chris) (et al) (agent), Oppenheimer Wolff & Donnelly LLP,
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Patent and Priority Information (Country, Number, Date):
  Patent: WO 200158175 A2-A3 20010809 (WO 0158175)
  Application: WO 2001US3913 20010206 (PCT/WO US0103913)
  Priority Application: US 2000180530 20000207; US 2000570399 20000512
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 62937

Main International Patent Class (v7): **G06F-017/60**
Fulltext Availability:
  Detailed Description

Detailed Description
... entire audio soundtrack is sufficient for successful redemption. As
  for the quality of the recording, **high fidelity** level is not
  necessary and thus low component/fabrication costs and small form factor
  sizes...the second oldest audio clip file. This process is circular so
  that after the newest **audio clip file** is **played** , the next **audio
  clip file** to be **played** corresponds to the oldest **audio clip file**
  . Of course, one ordinarily skilled in the art can devise other similar
  schemes to playback...music is played. Sometimes, the radio disc jockey
  identifies this music along with several other **songs** that have also
  aired, which complicates the identification process for the user. Not
  only does the user have to match the identification with the actual **song**
  he heard, but he may have to wait for quite some time before the radio
  ...
...this embodiment of the present invention, the user merely records the a
  clip of the **song** and play it back to a central music website. The music
  website will identify the music immediately and also suggest CDs that
  contain that **song** to purchase.

The memory 214 provides support for the database server 212 and the
  authentication...

 15/3,K/11   (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00825099   **Image available**

PHYSICAL PRESENCE DIGITAL AUTHENTICATION SYSTEM (SMART E-WALLET)
SYSTEME D'AUTHENTIFICATION NUMERIQUE DE PRESENCE PHYSIQUE (PORTEFEUILLE
   ELECTRONIQUE INTELLIGENT)
Patent Applicant/Assignee:
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    (Residence), IL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
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  LEV Tsvi, Lisin Street 11, 62997 Tel-Aviv, IL, IL (Residence), IL
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  COHEN Moshe, Chovevey 47, Tsivon, Tel-Aviv, IL, IL (Residence), IL
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  SPEYER Gavriel, 11358 Chalon Road, Los Angeles, CA 90049, US, US
    (Residence), US (Nationality), (Designated only for: US)
  SEGE Alan, 1518 Euclid Street, Apt. #5, Santa Monica, CA 90404, US, US
    (Residence), US (Nationality), (Designated only for: US)
  ALTIMAN Nathan, Hachashmonaym Street 39, Tel Aviv, IL, IL (Residence), IL
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  ANATI Rami, Haetrog Street 16, 38244 Kfar Brandes Haders, IL, IL
    (Residence), IL (Nationality), (Designated only for: US)
Legal Representative:
  CHOU Chien-Wei (Chris) (et al) (agent), Oppenheimer Wolff & Donnelly LLP,
    1400 Page Mill Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200158174 A2-A3 20010809 (WO 0158174)
  Application: WO 2001US3908 20010206 (PCT/WO US0103908)
  Priority Application: US 2000180530 20000207; US 2000570399 20000512
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 62987

Main International Patent Class (v7): **G06F-017/60**
Fulltext Availability:
  Detailed Description

Detailed Description
... entire audio soundtrack is sufficient for successful redemption. As
  for the quality of the recording, **high   fidelity** level is not
  necessary and thus low component/fabrication costs and small form factor
  sizes...the second oldest audio clip file. This process is circular so
  that after the newest **audio   clip   file   is played** , the next **audio**
   clip   file   to be played corresponds to the oldest **audio   clip file**
  . Of cour se, one ordinarily skilled in the art can devise other similar
  schemes to...music is played. Sometimes, the radio disc jockey identifies
  this music along with several other **songs** that have also aired, which
  complicates the identification process for the user. Not only does the

user have to match the identification with the actual **song** he heard, but he may have to wait for quite some time before the radio...

...this embodiment of the present invention, the user merely records the a clip of the **song** and play it back to a central music website. The music website will identify the music immediately and also suggest CDs that contain that **song** to purchase.

The memory 214 provides support for the database server 212 and the authentication...

15/3,K/12   (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00825041
PHYSICAL PRESENCE DIGITAL AUTHENTICATION SYSTEM (POINTS/CASH PURCHASING MECHANISM)
SYSTEME D'AUTHENTIFICATION NUMERIQUE DE PRESENCE PHYSIQUE (MECANISME D'ACHAT PAR POINTS/EN ESPECES)
Patent Applicant/Assignee:
  COMSENSE TECHNOLOGIES LTD, 3 Azrieli Center, 67023 Tel-Aviv, IL, IL
    (Residence), IL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
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    (Nationality), (Designated only for: US)
  ANTEBI Amit, Marganit Street 64, Ramat-Gan, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
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    (Nationality), (Designated only for: US)
  COHEN Moshe, 47 Hovevey, Tsivon, Tel Aviv, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
  SPEYER Gavriel, 11358 Chalon Road, Los Angeles, CA 90049, US, US
    (Residence), US (Nationality), (Designated only for: US)
  SEGE Alan, 1518 Euclid Street, Apt. #5, Santa Monica, CA 90404, US, US
    (Residence), US (Nationality), (Designated only for: US)
  ALTIMAN Nathan, Hachashmonaym Street 39, Tel Aviv, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
  ANATI Rami, Haetrog Street 16, 38244 Kfar Brandes Haders, IL, IL
    (Residence), IL (Nationality), (Designated only for: US)
Legal Representative:
  CHOU Chien-Wei (et al) (agent), Oppenheimer Wolff & Donnelly LLP, 1400
    Page Mill Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200157624 A2-A3 20010809 (WO 0157624)
  Application: WO 2001US4063 20010207 (PCT/WO US0104063)
  Priority Application: US 2000180530 20000207; US 2000570399 20000512
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English

Ginger R. DeMille

Fulltext Word Count: 63016

International Patent Class (v7): **G06F-017/60** ...

... **G06F-017/00**
Fulltext Availability:
  Detailed Description

Detailed Description
... entire audio soundtrack is sufficient for successful redemption. As
  for the quality of the recording, **high fidelity** level is not
  necessary and thus low component/fabrication costs and small form factor
  sizes...the second oldest audio clip file. This process is circular so
  that after the newest **audio clip file** is **played** , the next **audio
  clip file** to be **played** corresponds to the oldest **audio** clip **file**
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  schemes to playback...music is played. Sometimes, the radio disc jockey
  identifies this music along with several other **songs** that have' also
  aired, which complicates the identification process for the user. Not
  only does the user have to match the identification with the actual **song**
  he heard, but he may have to wait for quite some time before the radio
  ...

...this embodiment of the present invention, the user merely records the a
  clip of the **song** and play it back to a central music website. The music
  website will identify the music immediately and also suggest CDs that
  contain that **song** to purchase.

The memory 214 provides support for the database server 212 and the
  authentication...

 15/3,K/13   (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00825037   **Image available**
PHYSICAL PRESENCE DIGITAL AUTHENTICATION SYSTEM
SYSTEME D'AUTHENTIFICATION NUMERIQUE DE PRESENCE PHYSIQUE
Patent Applicant/Assignee:
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   (Residence), IL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
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   (Nationality), (Designated only for: US)
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  (Nationality), (Designated only for: US)
  COHEN Moshe, Chovevey 47, Tsivon, Tel-Aviv, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
  SPEYER Gavriel, 11358 Chalon Road, Los Angeles, CA 90049, US, US
    (Residence), US (Nationality), (Designated only for: US)
  SEGE Alan, 1518 Euclid Street, #5, Santa Monica, CA 90404, US, US
    (Residence), US (Nationality), (Designated only for: US)
  ALTIMAN Nathan, Hachashmonaym Street 39, Tel Aviv, IL, IL (Residence), IL
    (Nationality), (Designated only for: US)
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Legal Representative:

18-Jul-07   \#   10:19 AM

CHOU Chien-Wei (et al) (agent), Oppenheimer Wolff & Donnelly LLP., 1400
    Page Mill Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200157619 A2-A3 20010809 (WO 0157619)
  Application: WO 2001US3868 20010206   (PCT/WO US0103868)
  Priority Application: US 2000180530 20000207; US 2000570399 20000512
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 63728

Main International Patent Class (v7): **G06F-017/60**
Fulltext Availability:
  Detailed Description

Detailed Description
... entire audio soundtrack is sufficient for successful redemption. As
  for the quality of the recording, **high   fidelity** level is not
  necessary and thus low component/fabrication costs and small form factor
  sizes...the second oldest audio clip file. This process is circular so
  that after the newest **audio   clip   file** is **played** , the next **audio
   clip   file** to be **played** corresponds to the oldest **audio** clip **file**
  . Of course, one ordinarily skilled in the art can devise other similar
  schemes to playback...music is played. Sometimes, the radio disc jockey
  identifies this music along with several other **songs** that have also
  aired, which complicates the identification process for the user. Not
  only does the user have to match the identification with the actual **song**
   he heard, but he may have to wait for quite some time before the radio
  ...

...this embodiment of the present invention, the user merely records the a
 clip of the **song** and play it back to a central music website. The music
 website will identify the music immediately and also suggest CDs that
 contain that **song** to purchase.

 The memory 214 provides support for the database server 212 and the
 authentication...

 15/3,K/14   (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00802106   **Image available**
INTERNET RADIO AND BROADCAST METHOD
RADIO INTERNET ET PROCEDE DE RADIODIFFUSION
Patent Applicant/Assignee:
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Patent Applicant/Inventor:
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    Ave., Santa Monica, CA 90404, US, US (Residence), -- (Nationality),
    (Designated only for: US)
Legal Representative:
  JORDAN Andrew (et al) (agent), Cislo & Thomas LLP, 233 Wilshire Blvd.,
    Ste. 900, Santa Monica, CA 90401-1211, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200135667 A1 20010517 (WO 0135667)
  Application: WO 2000US30919 20001109 (PCT/WO US0030919)
  Priority Application: US 99164846 19991110
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 40110

...International Patent Class (v7): G06F-003/00 ...

... G06F-013/00
Fulltext Availability:
  Detailed Description
  Claims
English Abstract

...a large database (160), users may indicate their general or specific
  preferences with regards to song , artist, or albums. A playlist is
  created that combines all of the user's preferences...

Detailed Description
...   RADIO AND BROADCAST METHOD
  LAUNCHcast Architecture
  f@7N i 48 LAUNCHcast Player
  iO4
  i 40 Song info,
  ------ I N1102
  1 4 i VAndows i
  0,6
  Usa (Djf,) i 42 130...

...a large database (160), users may indicate their general or specific
  preferences with regards to song , artist, or albums. A playlist is
  created that combines all of the user's preferences...

...with the Internet.

  Regular radio broadcasts are based upon a central individual or station
  broadcasting songs , or other audio information, electromagnetically.
  Different radio stations are separated by their different carrier
  frequencies...

...be effected by a transmitter to a receiver. If an individual wants to affect the **songs** that are played by the radio station, he or she may write, call, fax, e...

...personal, often affecting a person at an emotional level. When the radio station broadcasts a **song** or other audio signal, all receivers tuned to the carrier frequency pick up the broadcast...

...would be much more advantageous to allow each individual to influence, their own set of **song** playlists.

Currently, this is not achievable by wireless broadcast means. However, unique data stream addressing...

...processes are known, but generally follow the known radio station format of broadcasting a single **song** , or data stream, to all users tuned to the station or channel. In compliance with...

...DMCA), such a radio would have to comply with statutory regulations regarding the broadcast of **songs** and would generally have to avoid the role of an "on-demand" system, as this...music videos and the like. Atthecoreofthepresentinventionistheplaylistgencrator. Itisthegeneratedsonglistthatisassociatedwiththe user5s account and indicates to the system which **song** is to be played next. Once a **song** has been selected, it is then streamed as data out to the individual's computer...

...the present system is shown where the LAUNCHcast Player provides user feedback and indication of **song** preference through Java Servlets and JavaScript code. In one embodiment, a Windows Media Player may...

...Windows Media Player system is to be considered as indicating any appropriately functioning media player.

Song or video information is available through both the player and the accompanying data window.

Referring...provided by the present invention. As shown in Figure 1, the player 102 has a **song** information section 104, a rating tool 106, and a player 108.

For this last component...
...01/35667 PCT/USOO/30919
5
currently playing. Note should be taken thatjust as the **song** rating indicator is highlighted and active in the middle right **section** of the **playback** window, the **song** title is highlighted in the upper portion of the playback window.

Additionally, the left and...

...the playback window provides information regarding fans who have strong positive feelings about the present **song** , artist, and/or album, as well as an average rating for all users or some...

...and 3 also show graphic information that may be used for advertising orotherhyperlinks.
Ingeneratingtheplaylistofthepresentinvention,theusercanbeinformedastowhya particular **song** was picked.

For other links and presentation of information in the player 102, a tool
...

...assures the listener/viewer that the short span of silence, or "dead
air," following a **song** is only temporary and that a new
songwillsoonplay.
Generally,inordertopromoteinteractivityandtotakeadvantagcofthenewmediatha
tthelnternet provides, the windows shown in...

...returns false).

all of the parameters (uscrID, djID, etc) match;
there are more than 8 **songs** leftthe newRatingsCount (counter of new
personalization data since last refresh) is less than 15; and A list of
all the possible **songs** available for play (via
PlaylistGenerator.gatherMediao as well as some other data about those
songs is obtained. This is generally done using multiple threads running
at the same time for better performance. The list of **songs** is held in
hashtable (as via the Population subroutine (Appendix 2, page 198)).

The database 160 is first called to load a history of all the **songs**
played for the user in the last 30 days. This is stored in the database
...

...from the database. Dates older than 30 days are ignored and the last
time a **song** was played overwrites previous plays of a **song** . Each time
a **song** is played via the media gateway 120, this string is appended.

After the history loading...

...is recreated and rewritten to the database. This cleans up the string by
removal of **songs** that were played more than 30 days ago as well as
duplicate entries for the...

...available, the ratings are obtained via GetRatings. This is also done in
a thread. The **song** hashtable, another hashtable that contains Artist
and Album ratings (ItemsProfile), the DJ, and the list...

...these ratings via RatingsCache.getRatings(.

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8
The number of **songs** to pick from each list is determined. For example,
if the size of a playlist is 50 **songs** , the following may occur. If the
user is listening to his own station, the following formula may be used:
if the user's list of explicit and implicit **songs** is smaller than 100
songs , 90% of the **songs** must be picked from the unrated list to avoid
playing the user's rated **songs** too much. The user's unrated quota may,
then, be set to 90. Otherwise, an...

...be used from the user's stored options.

Under some circumstances the maximum number of **songs** available from the
explicit and implicit **song** lists is calculated as follows.

maxii-numRated = playlistSize * (I 00 - unratedQuota) * 0.0 1.

The maximum number of **songs** available from the explicit list may be
calculated as.

MaximurnExplicit = number of **songs** in the explicit list *
A number of **songs** to pick from the explicitly-rated list may then be.

explicitToPick = playlistSize * (100 - unrated quota) * 0.01 * (number of
  songs in the explicit list / sum of
explicit and implicit **songs**) * 3);
From this the number of implicit **songs** is simply.

implicitToPick = maxiumumRated - explicitToPick.
Confirmation can be made to ensure that more explicit **songs** have not
been picked than indicated by maximurnExplicit and that no more implicit
songs have been picked than those that are in the implicit list. The
number of unrated **songs** is then: playlistSize - (explicitToPick -
implicitToPick) If the user is listening to a station other than his own
and the number of **songs** in the explicit and implicit list total greater
than 200, then the following calculations are made.

explicitToPick = Minimum(playlistSize * .50, 20% of explicit **songs**);
and
implicitToPick = Minimum(playlistSize, # of implicit **songs**) -
explicitToPick If, for some reason, a sufficient and/orplaylistSize
number of **songs** is not obtained from this calculation, athird of the
songs is picked from each of explicit, implicit and unrated **songs** with
a checkto ensure that not more than 20%of the **songs** on the rated and
unrated lists are picked. As a fallback measure if none of the methods
above used to calculate the number of **songs** to pick worked, the **songs**
are selected as a third of the playlistSize from each list, making sure
not to...

...the rated and unrated lists.
A list of albums and artists from and by which **songs** have been played
for this user in the last 3 hours is copied or otherwise made available
to the process set forth herein and the **songs** for this playlist are
picked via PlaylistGenerator.pickSongs(. A list of all the picks needed
is made (via PickList). For example, if there is a playlist of 50 **songs**
, the list may contain IO entries for explicit **songs** , 20 for implicit
songs , and 20 for unrated **songs** .

While there are still **songs** to pick, iteration is made through the
following cycle.

a. randomly pick a **song** list type (explicit, implicit, unrated) with a
probability based on the proportion of **songs**
to come from each list;
b. pick a random **song** index from that list (which has already been
sorted in descending order of score), based on the following formula (via
SongGroup.pickRandomo.

sizeOfList = the number of **songs** in this list;
random = a randomly-chosen number between 0 and (sizeOfList - 1) + 0.01;
and index of **song** to pick = ((rand 1 7) / sizeOfList - I 1 7) *
(sizeOfList - 1)).
This formula allows **songs** to be picked somewhat randomly, while
guaranteeing a high probability that the **song**
pickedwillcomefromhighestscored,
Thehighertherankingofthesonginthescorematrix,thchighertheprobability
cache are retrieved from the database.

The **song** information cache is implemented through the SongInfoCache
routine (Appendix 2, page 265) and may be...

...that is used in playlist generation. It may include a list and hashtable
of all **songs** which includes identifying numbers, media formats
available, average rating, artist and album information, explicit lyrics
mark, genres the **song** is in, and radio stations that play the **song** .
Also, other information may be included in the **song** information cache,
including: a hashtable of artist information;, a hashtable of album
information; a list...

...tips including identifying numbers and media formats available; a lists
of the 1000 most popular **songs** in each media format; lists of all
songs in
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11
Listening" page. These pages may be associated...

...in the playlist generator, and in calculating a Top 100 chart for the
most popular **songs** and/or streams.

While there may be some preference for an "on-demand" service such...

...It is yet another object of the present invention to provide a means by
which **song** playlists may be generated for such an Internet radio.

It is an object of the...

...total
```
------------------------------------
getPopular done
------------------------------------
0.047 lap time, 0. I I total
------------------------------------
getRandom done (picked 5000 songs )
------------------------------------
1.281 lap time, 1.391 total
--------------------------------genres for mood 0:64, 44, 46, 48...
```
...recently played albums and artists marked
```
------------------------------------
0.0 lap time, 1.547 total
-------------------------------Of 6749 songs , these are the
```
reasons for exclusion: 546 were already excluded, 349 were not encoded,
34...

...were not in their genres, 482 had an implicit rating of 0.

There are 4046 **songs** available for play
ordering ...

```
------------------------------------------------------------------
-
finished sorting vectors at
------------------------------------
0. II lap time, 1.657 total
-------------------------------Available: explicit songs : 388.0,
```
implicit **songs** : 2334.0, unrated **songs** : 1324.0
Ratio: 20
Picking: explicit **songs** : 17, implicit **songs** : 23, unrated **songs** : 10,
method Unrated Ratio
start of pickSongs
```
------------------------------------
```

```
0.0 lap time, 1.657 total
--------------------------------------
end...
```

...1.672 total
```
--------------------------------------
picked tips
--------------------------------------
0.0 lap time, 1.672 total
--------------------------------------
```
playlist has 50 **songs**
shuffling playlist...

end of createPlaylist
```
--------------------------------------
0.0 lap time, 1.672 total
--------------------------------------
```
starting to save...

...pickCounts: explicit to pick: 17, implicit to pick: 23, unrated to pick:
10 has 50 **songs** .

37409 146690 1022473 1364151 Emitt Rhodes Listen, Listen: The Best   ...0
1 VU I @Z8 I Z
VI   )
6I60f7/00Sf1/13d L99S;f/10 OM
 songs are from the album The Best Of 1980-1990 [Limited] (I 324 1 0)
Isongs...from the album Erotica (43307)
1songs are from the album The Immaculate Collection (43305)
2 **songs** are from the album Should The World Fail To Fall Apart (47344)
1 **songs** .are from the album I 00% Columbian * (I 30669)
1 **songs** are from the album Jars Of Clay (8774 1)
Isongs are from the album CSN [Box] (25421)
1songs are from the album New Adventures In **Hi** - **Fi** (95006)
.2 **songs** are from the album Forbidden **Songs** Of The Dying West (91874)
1 **songs** are from the album Breathing Tornados * (148836)
1 **songs** are from the album PNYC * (130952)
1songs are from the album Rock & Roll (64190)
1songs...

...Start The Car (23890)
  Isongs are from the album So Far So Good (14393)
  2 **songs** are from the album Fields Of Gold: The Best Of Sting 1984-1994
  (74082)
  1 **songs** are from the album They Might Be Giants (61860)
  1songs are from the album Sense (41860)
  2 **songs** .are from the album Made On Earth (I 3 7097)
  1songs are from the album...

...album A Saucerful Of Secrets (50728)
  1songs are from the album The Best (87489)
  1 **songs** are from the album Ummagumma (51128)
  1songs are from the album X (36886)
  2 **songs** are from the album Pure Moods (I 13337)
  1 **songs** are from the album This Fire * (I 0566 1)
   songs (42.0%) are from the random query
  6 **songs** (I 2.0%) are from the pop query
  6 **songs** (I 2.0%) are from the djs query
  17 **songs** (34.0%) are from the rated query
  3 **songs** (6.0%) originated from djAlb

I I **songs** (22.0%) originated from random
3 **songs** (6.0%) originated from djs
6 **songs** (12.0%) originated from s avg
3 **songs** (6.0%) originated from artist
7 **songs** (I 4.000000000000002%) originated from album
17 **songs** (34.0%) originated from rated
Percentile 0% - 20%: 40 (80%)
Percentile 20% - 40%: 2 (4...0 40/0 95006 1021869R.E.M. Wake-Up Bomb, The
- (live) New Adventures
In **Hi** - **Fi** (14, 77,)
227025 rated rated P 42 79 100/30 0/0 49 70/49...39/14 (4) 25/4
52/0 37/2 102305 10 12081 Robyn Hitchcock Yip **Song** , The Greatest Hits
(143 77,
2322 560002 random random N -1 19 0/0 0...t Even Know Myself Live At
The Isle Of Wight Festival 1970 * (14, 77,
Unrated **Songs**
4 songID query origin status ord score lastP. bds impl. rating(t) djs
netP.

```
...package com.launch.PlaylistGenerator;
importjava.util.Hashtable;
public class ArtistlnfO
int ID;
String title;
Hashtable songs ;
public ArtistInfo(int ID)
this.ID = ID;
 songs = new Hashtable(;
public String toString(
f
return lartistlD=" + ID + title=" + title +
public final static boolean...
```

...App. 2-7
1
do it the other way, check each of the genres the **song** is

```
H in and if it's in the user's genres
for (int i...Util.newLine);
1
public final static String typeString(byte type)
if (type == Constants.ITEM-TYPE- SONG )
return " song ";
else if (type == Constants.ITEM-TYPE-ALBUM)
return "album";
else if (type == Constants.ITEM-TYPE...
...TYPE-INTERSTITIAL 3;
public final static byte TYPE-TIP = 4;
public final static byte TYPE
  SONG  = 5;
public final static byte TYPE-BROADCAST = 6;
public int ID;
public byte type;
public...

...T
directory = newDir;
public void logPlay(DBConnection conn, int userID)
String sqI
if (type == TYPE - SONG )
sqI = "exec sp
IcLogPlaySong
isud + userlD + + mediaID + + ID + +
origin;
App. 2-13
try
conn.executeUpdate...
...conn, ClipSchedule schedule)
if (type == TYPE-NONE)
return false;
SimpleClipList list = null;
if (type == TYPE- SONG )
list schedule.playlist. songs ;
else if (type == TYPE-AD)
list schedule.playlist.ads;
else if (type == TYPE-TIP)
list...

...proc = TIPS
SP;
else if (type TYPE-NEWS) stored
proc = NEWS-SP;
else stored
proc =  SONG
SP;
the command= "exec + stored-proc + + userlD + + comextNum;
155
rs = conn.executeSQL(the-Command);
if...
...return "Interstitial";
220 case TYPE NEWS.

return "News";
case TYPE-TIP.

return "Tip";
case TYPE  SONG .
```

```
225 return " Song ";
return
230
public String URL(
 return server
235 + directory
+ 11PI
+ filepath;
240
Clipjava Page 5...of tips");
else
return Clip.TYPE-TIP;
else
140
if (debug) Util.out(out, "playing  SONG ");
if (playlist. songs .isEmptyo
145 System.err.printin(new Date(.toString( +userlD + userID + is
out of  songs ");
return Clip.TYPE NONE;
else
150 return Clip.TYPE- SONG ;
Hreturn Clip.TYPE-NONE;
155
ClipSchedulejava Page 3 of 3 11/05/99 1:35...
```

```
...static String STREAM-SERVER = "http://devweb7.launch.com/F";
  public final static int RIAA MAX  SONGS  FROM -ALBUM = 2;
  public final static int RIAA MAX  SONGS  BY -ARTIST 3;
  public final static int BDS-SCORE-MAX -POINTS = 41;
  public final static...
```

```
...public final static int DEFAULT- BDS .-SCORE = 0;
  public final static int MAX-PERCENT -RATED - SONGS -TO-PICK = 20;
  public final static int NEW-USER-UNRATED -RATIO 90;
  public final static...
...200;
  public final static int MAX-ORDINAL 1000;
  H for calculating implicit based on other  song  ratings
  public final static int MAX- SONGS .-BY-ARTIST 4;
  H random picking
  public final static int RANDOM-  SONGS  -COUNT 5000;
  H this is a percent of the total number of  songs  in the database
  public final static int MIN- SONGS -IN -GENRES -TO-GET-RANDOM 5;
  public final static int MIN-RATING-FOR-RATED-SOURCE 35;
  //  songs  with average rating above this are considered popular
  H also change this at the top...
```

```
...int POPULAR- THRESHOLD = 58;
  public final static int DEFAULT-RATING = 52; global average for
  all  songs
  public final static int DEFAULT- DJS -SCORE =DEFAULT RATING;
  public final static int DEFAULT- NETP...if (list != null)
  result += list.size(;
  return result;
  returns a COPY of the list of  songs  in genres
  public SongList getInGenreList(GenreList myGenres)
  SongList result = new SongList(;
  for (int i = 0...
```

```
...addElements(get(myGenres.gerireAt(i)));
```

```
App. 2-39
returns a COPY of the list of  songs  in a genre
public SongList getInGenre(int genrelD)
SongList list = get(genreID);
SongList result;
if...of 2 11/05/99 1:38 PM
App. 2-50
A
public GetPlaylist(Population  songs , int userlD, SonglnfoCache cache)
this. songs  =  songs ;
this.userID = userID;
this.cache = cache;
1 5
public void run(
Date startDate = new Date...
```

```
...startDate);
SimplePlaylist playlist = SimplePlaylist.load(conn, userID);
if (playlist != null)
for (int i = 0; i <  playlist . songs .size(; i++)
 clip  = (SimpleClip)  playlist . songs .elementAt(i);
songID = clip.ID;
 songs .initSong(songID,  Song .EXCLUDED);
info = (Songlnfo) cache.get(songID, SonglnfoCache.TYPE- SONG );
 songs .artistCounts.increment(info.album.artist.ID);
 songs .albumCounts.increment(info.album.ID);
rowCount++;
conn.close(;
catch (DBException oops)
Util.debug("DB Exception: " + oops.getMessageo;
Util.debug(Thread.currentThread(.getName( + " excluded " + rowCount +
songs ");
Util.printElapsedTime(Thread.currentThread(.getName(, startDate);
GetPlaylistjava Page 2 of 2 11/05/99 1....
```

```
...I of 1 11/05/99 1:28 PM
App. 2-53
public GetPopular(Population  songs , SongList list)
this. songs  =  songs ;
this.fist list;
I
public void run(
1 5
Date startDate = new Date(;
Thread.currentThread(.setName("GetPopular");
 Song  ditty;
SongData data;
SongInfo info;
int rowCount = 0;
if (list null)
for (int i = 0; i < list.size(; i++)
info = list.elementAt(i);
data =  songs .getSongData(info.songID);
if (data != null)
H we can't add it, but let's append the info while we're here
data. setInfb(infb);
else
data =  songs .initSongGetData(info.songID,  Song .UNRATED);
if (data != null)
data.querySource = data.SOURCE
```

```
POPULAR;
data.setlnfo(info);
rowCount++;
Util.debug(Thread.currentThread(.getName( + " added + rowCount +  songs
");
Util.printElapsedTime(Thread.currentThread(.getName(, startDate);
GetPopularjava Page 2 of 2 11/05/99 1:38 PM
App.,@,-54
ItenisProfile profile;
int userID;
DJList djs;
Population  songs ;
SongInfoCache cache;
ServletOutputStream out;
public GetRatings(Population  songs , ItemsProfile profile, int userlD,
DJUst djs, SonginfoCache cache,
ServletOutputStream out)
this.profile profile;
this.userID userID;
this.djs = djs;
this.cache = cache;
this. songs  =  songs ;
public void run(
Date startDate = new Date(;
Thread.currentTliread(.setName("GetRatings");
int rowCount = 0;
H...

...retreived", startDate);
CachedRating cached;
int. dj ID, itemID;
byte rating, type;
SongData data;
short songType =  Song .EXPLICIT;
SongInfo info;
int artistID;
Item theltem;
so
int songRatings = 0;
int itemRatings = 0;
int...

...mean it was utirated
if (djlD != 0 11 rating < 0)
if (type == Constants.ITEM-TYPE- SONG )
songRatings++;
store the user's rating
if (userlD == djID)
userSongRatings++;
if (rating == 0)
  songs .initSong(itemID,  Song .EXCLUDED);
info = (Songinfo) cache.get(itemID,
SonglnfoCache.TYPE- SONG );
addToAverage(info, 0);
else
data =  songs .initSongGetData(itemID, songType).;
if (data != null)
info = (Songinfo) cache.get(itemID,
SonglnfoCache.TYPE- SONG );
if the  song  isn't in the cache, it's not
```

```
100 encoded
H and we can't play it
if (info == null)
  songs .initSong(itemID,
105  Song .EXCLUDED);
else
data.setlnfo(info);
110 data.querySource
SongData.SOURCE-R-ATED;
data.rating.set...

...user for the artist
addToAverage(info, rating);
120
else H this is another user's song  rating
App. 2-56
djSongRatings++;
data = songs .initSongGetData(itemID,  Song .LTNRATED);
if (data != null)
130
data.querySource = SongData.SOURCE
DJS;
data.djsAverage.add(rating);
135...

...theltem.djsAverage.add(rating);
160
rowCount++;
Util.out(out, Thread.currentThread(.getName( + " added
165 + songRatings + " song  ratings
+ userSongRatings + " user,
+ djSongRatings + " dj) "
+ "and " + iternRatings + " item ratings
+ userltemRatings + " user,
170 + djItemRatings + " dj)"
Util...

...I of 1 11/05/99 1:28 PM
App. 2-61
public GetRecentlyPlayed(Population  songs , int userID)
I
this. songs  = songs ;
this.userlD = userlD;
public void run(
1 5
Date startDate = new Date(;
Thread.currentThread(.setName...

...getlnt("aIbumID");
songID = rs.getlnt("songID");
artistID = rs.getInt("artistID");
H don't play these  songs  so soon again
  songs .initSong(songID,  Song .EXCLUDED);
  songs .artistCounts.increment(artistID);
  songs .albumCounts.increment(albumID);
rs.nextO; -
rowCount++;
conn.close(;
catch (DBException oops)
Util.debug("DBException: " + oops.getMessageo;
```

```
Util.debug(Thread.currentThread(.getName( + " added + rowCount +    songs
");
Util.printElapsedTime(Th.read.currentThread(.getName(, startDate);
App.- 2-62
GetRecentlyPlayedjava Page 2 of 2...

...conn.executeSQL("exec sp
IcGetPlayinglnfoForUser-xsxx
+ userID);
while (!rs.getBOF(. && !rs.getEOFO
songName = rs.getString(" song ");
alburnName = rs.getString("album");
artistName = rs.getString("artist");
songlD = rs.getInt("songID");
albumID = rs.getIm...
...artistID,
Constants.ITEM-TYPE-ARTIST);
105 else
djs = djRatings(conn, userID, songID,
Constants.ITEM-TYPE- SONG );
out.print(
110 "media id=" + mediall) + I&I
  " song -id=" + songlD + '1&11
  " song -name=" + escape(songName) + "&"
  "album id=" + albumID + 'W"
  "album-name=" + escape(albumName +
115 formatAlbumYear(year)) + lWit...

...newStatus + .'W"
  "origin=" + escape(SongData.originText(origin, djName,
djPosessive)) + "&"
App. 2-65
+ "Popular=" + popular + 'W"
+ " song -rating=". + songRating + 'W"
125 + " song
rating
jype=I " + 11V
+ "album-rating=" .+ albumRating + IWI
+ "album
rating
type= I" + tI&I
+ "artist...

...conn, String userlD, int itemID, byte itemType) throws
210 DBException
if (itemType == Constants.ITEM-TYPE- SONG )
I
return djRatings(conn, userlD, itemlD,
215 "sp IcGetUserDJRatingsForSongID xsxx", "dj rating");
else if (itemType...new CachedRating(rs.getlnt("userID"),
rs.getlnt("songlD"),
(byte)rs.getlnt("rating"), Constants.ITEM-TYPE- SONG );
results.addE]ement(cr);
rs.nextO;
corin.close(;
catch (DBException oops)
I
System.err.printin...
...rating from all djs for this tiem
public AverageRating djsAverage;
```

```
H average rating of all  songs  by an artist
public AverageRating songAverage;
public double songAverageScore(Artistlnfo info)
if (!songAvgScoreCalculated)
songAvgScoreCalculated = true;
double songsByArtist = Math.min(info. songs .size(,
Constants.MAX- SONGS -BY
ARTIST);
double songsRated = Math.min(songAverage.count(,
Constants.MAX- SONGS -BY
ARTIST);
H deviation from the average
songAvgScore = ((songAverage.get( - Constants.DEFAULT RATING)
(songsRated / songsByArtist...aClip.type( == Clip.TYPE-NONE)
done = true;
System.err.println("user " + userlD + " is out of  songs  to play");
else
H get the paths and stuff
aClip.getPath(conn, schedule); db call...int unrated;
String method
public PickCount(int userlD, int djlD, int ratio, int playlistSize,
Population  songs , ServIetOutputStream
out)
float explicitSize =  songs .explicit.size(;
float implicitSize =  songs .implicit.size(;
float unratedSize =  songs .unrated.size(;
Util.out(out, "Available: explicit  songs : " + explicitSize + ",
implicit  songs : " + implicitSize +
unrated  songs : + unratedSize);
Util.out(out, "Ratio: " + ratio);
// if you're listening to someone else's station, try to not listen to
any unrated  songs
if (userlD == djlD)
H let's try to use their ratio
double totalRated = (explicitSize + implicitSize...

...00 - ratio) * 0.0 1);
int maxRatedToPick = (int) Math.round(explicitSize
Constants.MAX-PERCENT-RATED- SONGS -TO-PICK * 0.01);
H pick three times as much ftom rated
int explicitToPick = (int...
...playlistSize * 0.50);
explicit = (int) Math.round(Math.min(explicit, (explicitSize
Constants.MAX-PERCENT-RATED- SONGS -TO-PICK) * 0.01));
implicit = (int) Math.min(playlistSize, implicitSize) - explicit;
method = "DJ play - no...

...playlistSize * 0.33);
explicit = (int) Math.round(Math.min(explicit, (explicitSize
Constants.MAX-PERCENT-RATED- SONGS -TO-PICK) / I 00.0));
implicit = (int) Math.round(playlistSize * 0.33);
implicit = (int) Math...

...playlistSize * 0.33);
explicit = (int) Math.round(Math.min(explicit, (explicitSize
Constants.MAX-PERCENT-RATED- SONGS -TO-PICK) / I 00.0));
implicit = (int) Math.round(playlistSize * 0.33);
implicit = (int) Math.round(Math.min(implicit, (implicitSize
Constants.MAX-PERCENT-RATED- SONGS -TO-PICK) / 100.0));
unrated = playlistSize - explicit - implicit;
```

```
method = "Default 33/33/33 method";
Util.out(out, "Picking: explicit  songs .
* explicit
+ ", implicit  songs .

* implicit
* ", unrated  songs .

* unrated
+ ", method + method
public String toString(
return "explicit to pick.

+ explicit
* ", implicit to pick.

* implicit...

...class PickList extends Vector
public PickList(PickCount counts)
H make a list of all the  song  types that we need to pick
for (int i = 0; i < counts.explicit; i++)
addElement( Song .EXPLICIT);
for (int i = 0; i < counts.implicit; i++)
addElement( Song .IMPLICIT);
for (int i = 0; i < counts.unrated; i++)
addElement( Song .LJNRATED);
public void addElement(short value)
f
addElement(new Short(value));
public void reAdd (short type, Vector songGroup, Population  songs )
H try to pick fi7orn the same bucket again
if (songGroup.size( > 0)
addElement(type);
H otherwise, try the other ones
else if ( songs .explicit.size( > 0)
addElement( Song .EXPLICIT);
else if ( songs .implicit.size( > 0)
addElement( Song .IMPLICIT);
else if ( songs .unrated.size( > 0)
addElement( Song .UNRATED);
public short getRandom(
if (size( < 0)
return 0;
int lucky = (int) Util.random(size...
...int songlD, Date lastPlayed)
the common case is that they will have NOT played this  song  before,
H so create the Integer object in  ...Integer(songID);
Date before = get(i);
H save only the most recent play of a  song
if (before == null 11 before.getTime( < lastP]ayed.getTimeo
hash.put(i, lastPlayed);
public Date...

...save: " + e.toStringo;
H Util.printElapsedTime("save", dateStarted);
170
public void markRecentlyPlayed(SonglnfoCache cache, Population  songs )
double now = dbDate.getTime(;
175 double lastThreeHours = Util.MILLISECONDS IN SECOND
```

Util.SECONDS IN MINUTE...

...hash.keys(; e.hasMoreElements(
App. 2-92
if (now - playedAt.getTime(< lastThreeHours)
190 H mark **songs** played in the last three hours
so as to comply with the RIAA rules
and...

...sure we don't pick too many later
info = (SongInfo) cache.get(songlD, SonglnfoCache.TYPE- **SONG**);
195 if (info != null)
artistlD = info.getArtistID(;
albumID = info.getAlbumID(;
200 H "various artists" albums don't count
if (!Artistinfo.isVariousArtists(artistID))
 songs .artistCounts.increment(artistID);
205 **songs** .albumCounts.increment(albumID);
210
public void oldLoad(DBConnection corm, int userID)
this.userID = userID;
215...result = new Playlist2(;
H copy playlist
for (int i = 0; i < media.size(; i++)
result. **songs** .addElement(((SongData)
media.elementAt(i)).toPlaylistEntry(mediaType));
copy news
for (int i = 0; i < news...
...djID + djID + 11) in mood + mood11)
 + with mediaType " + mediaType
 + pickCounts: " + counts
105 + has " + media.size(+ **songs** :"
 + Util.newLine;
for. (int i = 0; i < media.size(; i++)
SongData data = (SongData) media.elementAt...

...return (result + Util.newLine);
public int length
195
return media.size(;
public void append (SongData **song**)
200 float bucketSize = (new Float(I 0 1)).floatValue((new
Float(BUCKET-COUNT)).floatValue(;
int bucket = (int) Math.floor(**song** .status.percentile / bucketSize);
H Util.debug("adding medialD " + **song** .medialD
H + " in Percentile " + **song** .status.percentile +(bucket
H + bucket +
205 media.addElement(**song**);
buckets[bucket]++;
public Playlist shuffle(
210 Vector newList = new Vector(media.sizeo;
int rand = 0...

...this.moodID;
265 H copy playlist
for (int i = 0; i < media.size(; i++)
result. **songs** .addElement(((SongData)
media.elementAt(i)).toSimpleClip(mediaType));
270 H copy news
for (int i = 0...all these vectors contain exclusively Strings which are

```
directory/filename of audio files
public Vector   songs ;
public Vector news;
public Vector ads;
public Vector tips;
H methods
public Playlist2(
  songs  = new Vector(50);
news = new Vector(] 0);
ads =newVector(IO);
tips =new Vector(I 0);
----------------------------------------------------------------------------H
--------------------------------------------------------------------------
public final String toString(
return
" songs ="+ songs .toString( + +
"news="+news.toString( + ", " +
t'ads="+ads.toString( + 1% of +
"tips="+tips.toString(
Playlist2java Page...

...moodID;
  private short mediaType;
  private IntHash ratings;
  private ItemsProfile items;
  private PlayDates lastPlayed;
  private Population  songs ;
  private Vector news;
  private Vector ads;
  private Vector tips;
  private DJList djs;
  private GenreList genres...

...out;
  private SongInfoCache songCache;
  private boolean playExplicitLyrics true;
  Creates a new playlist generator.

  public PlaylistGenerator(
   songs  = new Population(;
news = new Vector(;
ads new Vector(;
tips new Vector(;
ratings = new IntHash(;
djs...

...playlistSize = params.playlistSize;
  songCache = cache;
  this.out = out;
  private void getRandom(
  Date startDate = new Date(;
   Song  ditty;
  SongData data;
  SongInfia info;
  SongList songList;
  int rowCount = 0;
  double pickCount;
  double totalSongs;
  the simple way
  songList = cache.getInGenres(genres);
  pickCount = Math.min(songList.size(, this.RANDOM- SONGS -COUNT);
```

```
H import them all
if (pickCount == songList.sizeo
for (int i = 0; i < pickCount...

...H the faster(?) but way more complicated way
int songCount = songCache.countInGenres(gerires);
105 total Songs  = songCache.size(SonglnfoCache.TYPE
 SONG );
double percent= (songCount / totalSongs) * I 00.0;
Util.printElapsedTime("GetRandom done counting in genres", startDate);
H the problem is if we pick randomly and they want  songs  from
110 H only a few genres, we're probably not going to get enough to create
// a playlist. So instead, if there's not a whole lot of  songs  in those
genres, //just get them directly from the genres instead of taking our
chances with random Util.debug("getRandom: " + songCount + " non-unique
songs  in genres (" + percent +
if (percent < Constants.MIN- SONGS -IN-GENRES-TO-GET-RANDOM)
115
Util.debug("getRandom: getting directly from genres");
H get the list of  songs  from each genre
// choose the number to pick from each, proportional to the number of
songs
H pick them
120 int totalToPick = Math.min(Constants.RANDOM- SONGS -COLJNT,
songCount);
for (int i = 0; i < genres.size(; i++)
App. 2-109
info = songList...

...rowCount += addRandom(info,
SongData.SOURCE-GENRES);
135
else
Util.debug("getRandom: picking randomly from all  songs ");
for (int i = 0; i < Constants.RANDOM- SONGS -COLJNT; i++)
140
H this is really fast
info = songCache.randomSong(;
H this is really slow
rowCount += addRandom(info, SongData.SOURCE-RANDOM);
145
Util.debug("getRandom added " + rowCount + "  songs ");
Util.printElapsedTime("GetRandom done", startDate);
150 private int addRandom(Songinfo info, byte source)
SongData data =  songs .initSongGetData(info.songID,  Song .UNRATED);
if (data!= null)
155 data.querySource = source;
data.setInfo(infb);
return 1;
return 0;
160
private void getPopular(SongList list)
Date startDate = new Date(;
 Song  ditty;
165 SongData data;
Songlnfo info;
int rowCount = 0;
if (list null)
170 for (int i = 0; i < list.size(; i++)
info = list.elementAt(i);
```

```
data =  songs .getSongData(info.  ...let's append the info while we're
here
data.setlnfo(info);
else
180
data =  songs .initSongGetData(info.songID,   Song .UNRATED);
if (data!= null)
data.querySource = data.SOURCE-POPULAR;
App- 2-1 1 0
'I
rowCount++;
190
Util.debug("getPopular added " + rowCount + "  songs ");
Gets all the required media and data to generate a playlist,
195
private void gatherMedia...

...we need to wait for the djs to come in first
  Thread getRatings = new GetRatings( songs , items, djID, djs, songCache,
  out);
 getRatings.start(;
  Util.out(out, "All threads started " + timeStampo;
  H...
...Util.out(out, "getPopular done " + timeStampo;
  getRandom(;
  Util.out(out, "getRandorn done (picked " + Constants.RANDOM- SONGS -COUNT
  + songs )" +
  timeStampo;
  215 Util.out(out, "genres for mood " + moodlD + ":" + genres.toStringo);
  // wait for them to...

...in getSubscriptions + oops.getMessageo;
  265
  Util.printElapsedTime("getSubscriptions took ", started);
  Calculates scores for all the  songs  and puts them into the various
  vectors
  270
  public void processSongs(
  byte result;
  WeightMatrix weights new WeightMatrix(;
  275 Integer songID;
   Song  aSong;
  SongData data;
  short type;
  Date playedAt;
  280 SongInfo info;
  int good != 0;
  int tested...

...IN SECOND
  Util.SECONDS IN MINUTE
  Util.MINUTES-IN-HOUR
  3;
  295 for (Enumeration e =  songs .keys(; c.hasMoreElements(
  tested++;
  albumAndArtist.reset(;
  300
  songlD (Integer) e.nextElernent(;
  aSong  songs .get(songID);
  data = aSong.getData(;
```

```
305 if (aSong.getType( ==  Song .EXCLUDED)
reasons.increment(1);
App. 2-112
else
310
H add the  song  info
info = data.getlnfo(;
H get the  song  info from the cache
if (info == null)
315
info = (Songlnfo) songCache.get(songID,
SonglnfoCache.TYPE- SONG );
data.setInfo(info);
320 H if it's still null, it's not encoded
if (info == null)
aSong.setType( Song .EXCLUDED);
reasons.increment(2);
325 continue;
H ok, we have the  song  info.

H add last played
playedAt = lastPlayed.get(songID);
330 if (playedAt != null)
lastPlayed.remove(songID);
H don't play the same  song  twice in a 3 hour period
335 if (now - playedAt.getTime( < lastThreeHours)
H mark  songs  played in the last three hours
H so as to comply with the RIAA rules...
...data.getAlbumID(;
H "various artists" albums don't count
if (! ArtistInfo. isVariousArtists(ar-tistID))
345  songs .artistCounts.increment(artistID);
  songs .albumCounts.increment(albumID);
H make sure we don't play this again so soon
aSong.setType( Song .EXCLUDED);
350 reasons.increment(3);
continue;
data.lastPlayed = lastPlayed.getScore(songID);
355 H check for bad words
if (!playExplicitLyrics && info.hasExplicitLyricso
aSong.setType( Song .EXCLUDED);
reasons.increment(4);
360 continue;
H now check for media in the type we need
if (!info.rnediaJnType(rnediaType))
365 aSong.setType( Song .EXCLUDED);
reasons.increment(5);
continue;
H check for valid genres
370 if (Nnfo.alburnAnGenres(genres))
App. 2-113
H for popular  songs , don't exclude them,
// otherwise we won't be able to default to them
H if the genre restrictions are too tight
375 if (data.querySource == data.SOURCE-POPULAR)
  songs .remove(songID);
reasons. increment(6);
380 aSong.setType( Song .EXCLUDED);
continue;
H we got this far, so try to calculate an implicit rating
```

```
result = data.calculatelmplicit(items, albumAndArtist);
385 if (result == SongData.EXCLUDE-ME)
aSong.setType( Song .EXCLUDED);
reasons.increment(7);
continue;
390
if (result == SongData.MAKE-ME-IMPLICIT)
aSong.setType( Song .IMPLICIT);
data.calculateDJs(items, albumAndArtist);
395 data.score(weights, stations);
 songs .implicit.addElement(data);
good++;
else
400
type = aSong.getType(;
H put the  song  in a list to pick from later
if (type ==  Song .EXPLICIT)
405 H your djs don't matter if you explicitly rated the  song
 songs .explicit.addElement(data);
else if (type ==  Song .IMPLICIT)
410 data.calculateWs(iterns, albumAndArtist);
 songs .implicit.addElement(data);
else if (type ==  Song .UNRATED)
415 data.calculateDJs(items, albumAndArtist);
 songs .unrated.addElement(data);
H calculate the score
data.score(weights, stations);
420 good++;
425 Util.out(out, "scores calculated " + timeStampo;
// for all the  songs  we didn't get for whatever reason, make sure we
H are accounting for their plays for compliance with RIAA rules
lastPlayed.markRecentlyPlayed(songCache,  songs );
430 Util.out(out, "recently played albums and artists marked " +
timeStampo; Util.out(out, "Of " + tested + "  songs , these are the
reasons for exclusion.

ApD. 2-114
Gets a user's preferences for...DB Exception in getOptions: " +
oops.getMessageo;
mediaType = Media.getMediaType(speed, format);
Util.debug("Play dirty  songs ?: " + playExplicitLyrics);
475 Util.debug("Bandwidth: " + speed.toStringo;
Util.debug("Format: " + format.toStringo;
Util.debug("mediaType...

...Playlist makePlaylist(int factor, int ratio, int playlistSize, Playlist
 playlist)
Util.out(out, "ordering..." + timeStampo;
 songs .sort( songs .explicit);
545  songs .sort( songs .implicit);
 songs .sort( songs .unrated);
Util.out(out, "finished sorting vectors at " + timeStampo;
playlist.counts = new PickCount(userlD, djlD, ratio, playlistSize,  songs
, out);
H set up the playlist
550 playlist.userlD = this.userID;
playlist.moodID = this.moodID...

...of albums and artists recently played
 555 H for the RIAA rules
```

```
playlist.albums = (IntHash)  songs .albumCounts.clone(;
App. 2-116
Util.out(out, "We only got " + playlist.media.size( + "  songs   for user
+ playlist.userlD
+ Playing popular music in mediaType " + mediaType);
565 // uh oh, we didn't get enough  songs ; play popular stuff
playlist.counts.explicit = 0;
playlist.counts.implicit = 0;
playlist.counts.unrated = playlistSize;
playlist.albums = (IntHash)  songs .albumCounts.clone(;
570 playlist.artists = (IntHash)  songs .artistCounts.clone(;
playlist.resetSources(;
playlist.media.removeAllElements(;
playlist.popularOnly = true;
575  songs .importPopular(songCache.getPopular(mediaType), lastPlayed,
playExplicitLyrics);
pickSongs(playlist);
pick news
pickNews(playlist);
580 Util.out...

...pickTips(playlist);
Util.out(out, "picked tips " + titneStampo;
Util.out(out, "playlist has " + playlist.length( +  songs ");
Util.out(out, "shuffling playlist...");
return playlist.shuffle(;
590
public void pickNews(Playlist list)
I...

...pick;
615 SongGroup songGroup;
while (pickTypes.size( > 0)
iteration++;
App. 2-117
else if (type ==  Song .IMPLICIT &&  songs .implicit.size( > 0)
f
songGroup =  songs .implicit;
630 1
else
type =  Song .UNRATED;
songGroup =  songs .unrated;
635
pick a random  song  from a group
pick = songGroup.pickRandom(factor);
H if we have none of that type, try another
if (pick == null)
6Q
pickTypes.reAdd(type, songGroup,  songs );
continue;
artistlD = pick.getArtistID(;
645 alburnID = pick.getAlbumID(;
artistCount = 0;
albumCount = 0;
H check for...

...artistCount = list.artists.get(artistID);
albumCount = list.albums.get(albumID);
if (artistCount >= Constants.RIAA MAX  SONGS   BY ARTIST
albumCount >= Constants.RIAA-MAX-  SONGS  -FROM-ALBUM)
```

```
655
pick.status.status = PickStatus.REJECTED;
H Util.debug(" Song  rejected by RIAA");
H we have too many from this artist or album. Try again.

pickTypes.reAdd(type, songGroup,  songs );
660 continue;
H increment the album and artist counts
if (!Artistlnfo.isVariousArtists(artistID))
list.artists...

...the playlist
list.append(pick);
pick.status.status = PickStatus.PICKED;
pick.status.order = ++pickOrder;
670
 songs .ordered.= false;
Util.out(out, "end of pickSongs " + timeStampo;
return list;
675 public void toMatrix(ServietOutputStream out, int displayType)
 songs .order(;
String h I begin
String h I end =
680 if (displayType Util.DISPLAY-HTML...
...end + Util.newLine);
items.print(out, songCache);
Util.out(out, h I begin + "Explicitly Rated  Songs " + h I end +
Util.newLine);
 songs .toMatrix(out,  Song .EXPLICIT, displayType);
Util.out(out, hlbegin + "Implicitly Rated  Songs " + Mend +
Util.newLine);
690  songs .toMatrix(out,  Song .IMPLICIT, displayType);
Util.out(out, h I begin + "Unrated  Songs " + h I end + Util.newLine);
 songs .toMatrix(out,  Song .LJNRATED, displayType);
H + h I begin + "Excluded  Songs " + h I end + Util.newLine
+  songs .excludedList(;
695
public String timeStarnp(
Date now = new Date(;
if (startDate == null)
700 1
startDate...getTimestamp("dbDate");
playlist SimplePlaylist.fromBytes(rs.getBytes("playlist"));
rs.next(;
if (playlist != null)
songsRemaining = playlist. songs .size(;
moodlD = playlist.moodID;
djID playlist.djlD;
mediaType = playlist.mediaType;
speed Media.typeToBandwidth(mediaType);
App...

...IN HOUR
Util.HOURS IN DAY
Util.DAYS-IN-WEEK;
if (songsRemaining <= Constants.REFRESH-AT- SONGS
LEFT)
return true;
H if you're listening to someone else's station, your new...
```

```
...short mediaType)
f
return (SongList) byMedia.get(new Short(mediaType));
I
is public PopularSongs(Hashtable  songs , Hashtable mediaTypes)
byMedia = new Hashtable(l);
H make a list of àll  songs  and sort them
SongList all = new SongList( songs );
all.sort(;
// create each of the  song  lists
for (Enumeration e = mediaTypes.keys(; e.hasMoreElements(;)
Short mediaType = new Short(((Integer) e.nextElemento...

...track.mediaType)));
list.addElement(info);
truncate each list to the top I 000 most popular  songs
for (Enumeration e = mediaTypes.keys(; e.hasMoreElements(;)
Short mediaType = ne'w Short(((Integer) e.nextElemento...

...requestWrite(
I
++writersWaiting;
App. 2-131
--writersWaiting;
if (writersWaiting == 0)
notif@All(;
H returns this  song  if it's valid for adding data, null otherwise
public synchronized  Song  initSong(int songlD, short type)
if (type <= 0)
return null;
boolean result = true;
requestWrite(;
while (readers > 0)
f
try f wait(;
catch (InterruptedException e)
writing = true;
 Song   song  = get(songID);
if ( song  == null)
 song  = new  Song (songID, type);
put(songlD,  song );
H if it's excluded, it's not valid for modifying
if (type ==  Song .EXCLUDED)
too result = false;
else
I
result =  song .setType(type);
105
if (result)
return  song ;
110 H writing = false;
H finishWrite(;
return null;
115 public synchronized SongData initSongGetData(int songlD, short type)
 Song  aSong = initSong(songID, type);
if (aSong == null)
120 return null;
return aSong.getData(;
App. 2...
```

```
...int songlD)
I
return getSongData(new Integer(songID));
130 public synchronized SongData getSongData(Integer songlD)
 Song  s = get(songID);
if (s == null)
135 return null;
return s.getData(;
140 public synchronized...

...null;
145 synchronized (this)
while (writersWaiting > 0)
try { wait(;
150 catch (InterruptedException e)
addReader(;
155
 Song   song  = get(songID);
// there's no  song  for that ID; Did you call initSong?
if ( song  != null && type >=  song .getTypeo
160 result =  song .getData(;
removeReader(;
return result;
165
public synchronized  Song  get(int songID)
I
return get(new Integer(songID));
170
public synchronized  Song  get(Integer songID)
return (  Song ) hash.get(songID);
175
public synchronized  Song  remove(int songID)
return remove(new Integer(songID));
180 1
public synchronized  Song  remove(Integer songID)
return ( Song ) hash.remove(songID);
App. 2-133
private synchronized  Song  put(int songlD,  Song   song )
return ( Song ) hash.put(new Integer(songID),  song );
190
private int available(
int i = 0;
195
for (Enumeration e = hash.keys(; e.hasMoreElements(
 Song   song  = get((Integer) e.nextElemento;
if( song .type!= Song .EXCLUDED)
200
i++;
return i;
205
public Enumeration keys(
return hash.keys(;
210
public void...

...215 sortVectors(;
public int excludedCount(
220 int result = 0;
for (Enumeration ehash.keys(; e.hasMoreElements(
 Song   song  get(((Integer) e.nextElemento.intValueo;
```

```
if ( song .type ==  Song .EXCLUDED)
225
result++;
230 return result;
public boolean isEligible(int songID, int artistID, int albumID)
235
  Song   song  = get(songID);
if ( song != null &&  song .type ==  Song .EXCLUDED)
return false;
240
if ((artistCounts.get(artistID) < Constants.RIAA-MAX  SONGS -BY ARTIST)
&& (albumCounts.get(albumID) < Constants.RIAA-MAX- SONGS -FROM
ALBUM))
return true;
245 return false;
App. 2-134
public void createVectors(
250
explicit...
...unrated.removeAllElements(;
255
for (Enumeration e = hash.keys(; e.hasMoreElements(;)
H Util.debug("interation " + i);
  Song  mySong = get((Integer) e.nextElernento;
260 if (mySong != null)
SongData data = mySong.getData(;
if (mySong.type ==  Song .EXPLICIT)
265 explicit.addElement(data);
else if (mySong.type ==  Song .IMPLICIT)
implicit.addElement(data);
else if· (mySong.type !=  Song .EXCLUDED)
unrated.addElement(data);
270
public void importPopular(SongList abunch, PlayDates lastPlayed, boolean
playBadWords)
275
SongInfo info;
SongData data;
  Song  ditty;
int added = 0;
280
unrated.setSize(O);
long now = new Date(.getTime(;
285 long...

...i++)
295
info = abunch.elementAt(i);
playedAt = lastPlayed.get(info.songID);
H don't play  songs  twice within 3 hours
300 if (playedAt == null 11 (now - playedAt.getTimeo > lastThreeHours)
if (playBadWords 11 !info.hasExplicitLyricso
305
data = initSongGetData(info.songID,  Song .UNRATED);
if (data != null)
App. 2-135
data.setlnfo(info);
unrated.addElement(data);
added++;
315
```

```
Util.debug("import popular added " + added +  songs ");
320
public void sortVectors(
sort(explicit, 0, explicit.size( - 1);
sort(implicit, 0, implicit.size...

...public String toString(
String result
370
App. 2-136
int songlD ((Integer) e.nextElemento.intValue(;
  Song    song   get(songID);
375
result = result.concat("songID to + songlD
+ to +  song .toString(
+ Util.newLine);
380
return result;
public String sourceCount(
385
IntHash counts = new IntHash(;
String explicitList = "";
for (Enumeration e hash.keys(; e.hasMoreElements(
390
  Song    song   get(((Integer) e.nextElemento.intValueo;
if ( song .getType( ==   Song .EXPLICIT)
395 explicitList = explicitList.concat( song .songID +
counts.increment( song .type);
4W
return "counts: EXPLICIT + counts.get( Song .EXPLICIT)
* " C' + explicitList + 11) to
405 + " IMPLICIT = to + counts.get( Song .IMPLICIT)
* " EXCLUDED + counts.get( Song .EXCLUDED);
410
public void toMatrix(ServietOutputStream out, int songType, int
displayType)
String delim =
String prefix...

...Utiljoin(unbold + delim + bold, SongData.namesArrayo
440 + unbold + rowSuffix;
Vector v = null;
445 if (songType ==   Song .EXPLICIT)
v = explicit;
else if (songType ==   Song .IMPLICIT)
v = implicit;
else
450 v = unrated;
if (v null)
455 for (int i = 0...new Date(;
180 H--- get item rating --
GetItemRatingsFromDB iternRatings = new GetItemRatingsFromDB(userIDs,
results);
H--- get  song  rating --
GetSongRatingsFromDB songRatings = new GetSongRatingsFromDB(userIDs,
App. 2-142
catch (InterruptedException e)
195 f
System...
```

```
...out-print("NULL!" + Util.newLine);
  else
  out.print(Util.newLine + profile.count(Constants.ITEM-TYPE   SONG )
  315 + to  songs , to
  profile.count(Constants.ITEM-TYPE-ALBUM) + " albums, to
  profile.count(Constants.ITEM-TYPE-ARTIST...getParameter("ratee");
  iRateeType = Integer.parselnt( request.getParameter("ratee-type")
  sRating = request.getParameter("rating");
  120 H  song  case
  if (iRateeType == Constants.ITEM-TYPE
   SONG )
  App. 2-148
  + raterlD +
  + sRatee +
  + sRating, true);
  130
  H album case
  else if (iRateeType == Constants...debug("DB Exception: +
  oops.getMessageo;
  App: 2-158
  Utif.debug(Thread.currentThread(.getName( + " saved + rowCount +  songs
  ");
  Util.printElapsedTime(Thread.currentTliread(.getName(, startDate);
  SavePlaylistjava Page 2 of 2 11/05/99 1...

...tips
  public SimpleClip(int ID, int mediaID)
  this.medialD = mediall);
  this.ID =ID;
  Constructor for  songs
  public SimpleClip(int ID, .int mediall), byte origin)
  this(ID, mediaID);
  this.origin = origin;
  SimpleClipjava...

...news =new SirnpIeClipList(1 ,0);
  SimpleClipListads =newSimpleClipList(IO);
  SimpleClipList tips =new SimpleClipList(I 0);
  SirnpleClipList  songs  = new SimpleC]ipList(50);
  Date IastAd;
  Date lastNews;
  Date lastTip;
  short mediaType;
  int moodID;
  int djID;
  public String toString(
  return "ads=" + ads.toString( + +
  ffnews=" + news.toString( + +
  11songs=" +  songs .toString( + +
  "tips=" + tips.toString(;
  public void resetDates(Date newDate)
  f
  lastAd = lastNews = lastTip = newDate;
  I...SimplePlaylist.java Page 3 of 3 11/05/99 1:35 PM
  App. 2-164
   Song
  package com.launch.PlaylistGenerator;
  public class  Song
  public final static short EXCLUDED = 4;
  public final static short EXPLICIT = 3;
```

```
  public final static...

...short ANY 0;
  public int songID;
  public short type = ANY;
  private SongData data = null;
  public  Song .(int songlD, short type)
  this.songlD = songID;
  setType(type);
  public String toString(
  return " Song  + songlD
. + type = it
  + typeString(
  * 1% data = "
  * ((data == null) ? "null" data.toStringo;
  public String typeString(
  switch...

...type)
  return true;
  else if (newType < type)
  return false;
  else
  type = newType;
  add or delete  song  data
  if (newType == EXCLUDED)
  H if (oIdType != 0)
  H Util.debug(Thread.currentThread(.getName( + deleting data for  song  +
  songlD + oldType was " + oldType);
  data = null;
  else if (oldType == ANY && (newType EXPLICIT newType IMPLICIT newType...

...2;
  public final static byte SOURCE-IMPLICIT -ARTIST = 3;
  public final static byte SOURCE-IMPLICIT - SONG  = 4;
  public final static byte SOURCE-DJS 5;
  public final static byte SOURCE-DJS - SONG  = 5;
  public final static byte SOURCE BDS 6;
  public final static byte SOURCE POPULAR = 7...

...people because they don't like it when we say
  H we played lowly-rated  songs  for them
  // even though that's what we say we will play anyway
  if (rating...

...items, AlbumArtistData albumAndArtist)
  HO put in the default
  djs.set(djsAverage.get0;
  djSource = SOURCE - DJS
    SONG ;
  if (djsAverage.counto <= 0)
  115 djSource = SOURCE -RANDOM;
  Item albumItem = albumAndArtist.getAlbum(items, this);
  Item...

...count( > 0)
  rating.set((short) artistltem.songAverageScore(info.album.artist),
  SongRating.R-ATING-SOURCE-AVERAGE- SONG -RATING-BY-ARTIST);
  return MAKE-ME-IMPLICIT;
  175
```

```
return DO-NOTHING;
public void setBDS(short...SOURCE IMPLICIT ALBUM.

return "album";
case SOURCE IMPLICIT ARTIST.

return I'artist";
case SOURCE IMPLICIT  SONG .

265 return I's avg";
case SOURCE-DJS.

return "djs";
case SOURCE-DJS-ALBUM.

return...

...origin, String singularDJ, String posessiveDJ)
290 switch (origin)
case SOURCE-RATED.
return (singularDJ + " rated this  song ");
case SOURCE IMPLICIT ALBUM.

295 returr@ (singularDJ + " rated this album");
case SOURCE-IMPLICIT-ARTIST.

return (singularDJ + to rated this artist");
case SOURCE-IMPLICIT- SONG .

return (singularDJ + to rated other  songs  by this artist");
300 case SOURCE-DJS.

return (posessiveDJ + " DJs rated this  song ");
case SOURCE-DJS-ALBUM.

return (posessiveDJ + to D.Js rated this album");
case SOURCE-DJS...

...to D.Js rated this artist");
case SOURCE-BDS.

return (posessiveDJ + " radio stations play this  song ");
case SOURCE-POPULAR.

App. 2-171
return ....

public String toString(
320
return "songID:" + songlD +
+ "score...

...import j ava. uti 1. Date;
import java.util.Vector;
public class SonglnfoCache
private Hashtable  songs ;
private Hashtable albums;
private Hashtable artists;
private SongInfo songList[];
private Hashtable ads;
private Hashtable news...mediaTypes;
```

```
  public PopularSongs popular;
  public RatingsCache ratingsCache;
  private GenreIndex genres;
  public final static byte TYPE
    SONG  1;
  public final static byte TYPE
  ALBUM 2;
  public final static byte TYPE-ARTIST 3...

...Date lastUpdate;
  public SonglnfoCache(ServietOutputStream out)
  H use memory most efficiently with load factor 1
    songs  new Hashtable(50000);
  albums = new Hashtable(3000);
  artists = new Hashtable(I 5 00);
  ads = new...

...getEOFO
  songID = rs.getInt("songID");
  mediaType = rs.getInt("mediaType");
  aSong = (Songlnfo) init(songID, SonglnfbCache.TYPE
    SONG );
  filePath = rs.getString("server") + rs.getString("directory") + "
  " +
  rs.getString("filePath");
  aSong.media.add((short) mediaType, rs.getInt("mediaID"), filePath);
  aSong.title = rs.getString(" song ");
  anArtist = (ArtistInfo) init(rs.getInt("artistID"),
  SonginfoCache.TYPE-ARTIST);
  anArtist.title = rs.getString("artist");
  anArtist..songs .put(new Integer(songID), aSong);
  anAlbum = (Albumlnfo) init(rs.getInt("alburnlD"),
  SonglnfoCache.TYPE-ALBUM);
  anAlbum...

...rs.getBOF( && !rs.getEOFO
  songID = rs.getInt("songlD");
  ]Os aSong = (Songlnfo) get(songID, SonglnfoCache.TYPE- SONG );
  if (aSong!= null)
  aSong.commRating = (byte) rs.getlnt("comrnRating");
  110 rowCount++;
  rs.next(;
  Util.debug...

...short) rs.getInt("genrelD");
  songID = rs.getInt("songID");
  120 aSong = (Songlnfo) get(songID, SonglnfoCache.TYPE- SONG );
  if (aSong!= null && aSong.album != null)
  App. 2-179
  rs.nextO;
  Util.debug("SonglnfoCache:populate...

...while (!rs.getBOF( && !rs.getEOFO
  songID = rs.getInt("songlD");
  135 aSong = (Songlnfo) get(songlD, TYPE
    SONG ); .
  if (aSong!= null)
  rank rs.getInt("rank");
  stationlD = rs.getlm("stationID");
  140 rowCount++;
  aSong.addBDSRank...
```

```
...DBException oops)
  200
  System.out.printin("DBException in cache populate: + oops.getMessageo;
  H populate the songs array
  songList = new Songlnfo[ songs .size(];
  205 int i = 0;
  for (Enumeration e = songs .keys(; e.hasMoreElements(
  songList[i] = (Songlnfo) songs .get((Integer) e.nextElemento;
  i++;
  210 populate the ads array
  adList = new Clip[ads.size...
```

```
...Clip) tips.get((Integer) e.nextElemento;
  i++;
  230
  H make popular lists
  popular = new PopularSongs( songs , mediaTypes);
  Util.debug("SonglnfoCache:populate done");
  235 private Hashtable getHash(byte type)
  if (type == TYPE- SONG )
  return songs ;
  else if (type == TYPE -ALBUM)
  240 return albums;
  else if (type == TYPE -ARTIST)
  return artists...
```

```
...new Integer(ID), type);
  private Object makeNew(int ID, byte type)
  270
  if (type == TYPE- SONG )
  return new SongInfo(ID);
  else if (type == TYPE-ALBUM)
  return new Alburnlnfo(ID);
  275 else...return null;
  return songList[(int) index];
  public Enumeration keys(byte type)
  300
  if (type == TYPE- SONG )
  return songs .keys(;
  else if (type == TYPE-ALBUM)
  return albums.keys(;
  305 else if (type == TYPE-ARTIST...
```

```
...while (true)
  try Thread.sleep(timeToSleep); I catch (InterruptedException e) 11;
  try
  Util.debug("updating song cache at " + new DateO);
  Util.debug("last update was at " + servlet.songCache.lastUpdate);
  H make...
```

```
...serviet.songCache.ratingsCache;
  H install the new cache
  servlet.songCache = cache;
  Util.debug("finished updating song cache at " + new Dateo;
  Util.debug("last update is now at " + servlet.songCache.lastUpdate);
  catch...
```

```
...new Hashtable(;
  private boolean ordered false;
```

```
public SongList(
Creates a SongList from a Hashtable of  songs
public SongList(Hashtable  songs )
SongInfo info = null;
Integer songID;
for (Enumeration e =  songs .keys(; e.hasMoreElements(;)
songlD = (Integer) e.nextElement(;
info = (SongInfo)  songs .get(songID);
addElement(info);
public SongList(Hashtable  songs , short mediaType)
Integer songID;
SongInfo info = null;
for (Enumeration e =  songs .keys(; e.hasMoreElements(;)
songlD = (Integer) e.nextElement(;
info = (Songlnfo)  songs .get(songID);
if (info.media.inType(mediaType))
addElement(info);
public void addElement(SongInfo info)
Integer...
```

...final static byte RATING SOURCE FROM ARTIST = 3;
  public final static byte RATING-SOURCE-AVERAGE- **SONG** -RATING-BY-ARTIST 4;
  private short rating = (short) Constants.DEFAULT
  RATING;
  private boolean set = false...35,0.15,0.00,0.05,0.20,0.20,20.0)
  Hcross-propagated
   song ratings
WeightMatrix.java Page I of 1 11/05/99 1:32 PM
App. 2...

Claim
... preferences from the group consisting of other users, commercial radio
  stations, and lists of popular **songs** . 5 . The method for broadcasting
  data streams through a computer network of Claim 1, further...

...network of Claim 1, wherein said data streams are selected from the
  group consisting of **songs** and videos.

  7 The method for broadcasting data streams through a computer network of
  Claim...

...preferred data streams to a user of Claim I 1, wherein said database is
  a **song** database and the data streams are **songs** .

  14 The data stream system for providing preferred data streams to a user
  of Claim...

 15/3,K/15   **(Item 14 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00748839   **Image available**
SECURE ONLINE MUSIC DISTRIBUTION SYSTEM
SYSTEME DE DISTRIBUTION EN DIRECT ET SUR DE MUSIQUE
Patent Applicant/Assignee:
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  Patent: WO 200062265 A1 20001019 (WO 0062265)
  Application: WO 2000US9273 20000407   (PCT/WO US0009273)
  Priority Application: US 99289513 19990409
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES
  FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
  LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
  TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
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  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
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Fulltext Word Count: 22185

...International Patent Class (v7): **G06F-017/60**
Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
... and ease of use. In particular regard to the purchase of audio data,
  such as **songs** and related media (e. g., lyrics, graphics, liner notes
  which can typically accompany conventional retail...
...music distribution system to provide some mechanism by which users can
  play limited portions of **songs** and view related media without having to
  purchase the **song** . In addition, a consumer should be able to pass on
  preview music to other potential...

...an appropriately licensed playback device and the licensee's personal
  identification.

  Additionally, given the very **high** audio **fidelity** available today with
  conventional CD products, audio purchased over the Internet from an
  online music...encrypted and un-encrypted versions of a portion of a
  digital product, e.g., a **song** of a digital audio product, are combined
  into a single media data file along with descriptive text, artwork, and
  other information. The encrypted version of the **song** is a **high**
  fidelity audio image that is to be purchased. The un-encrypted versions
  of a **song** are either selected portions, or the entire **song** , but
  recorded with lesser quality, such as increased compression and/or lower
  sample rate. These...

...available free for previewing by the consumer in order to decide whether
  to purchase the **high** **fidelity** version. In addition, descriptive
  information, such as cover art, lyrics, and credits, is also available...
...number by guessing or deduction is very difficult.

  The encrypted high-quality version of the **song** is combined with the
  lower-quality un-encrypted versions, descriptive information and the

media key...using various sampling rates and compression levels. Each audio image 208 encodes either an entire **song** or a portion thereof. Use of a number of different audio images 208 of differing...

...to a provide a single media data file 200 representing various versions of the same **song** such that the **song** can be **previewed** by users of different platforms and different audio playback capabilities. Data chunk 206 also includes...2) can be implemented as an array of timing data and location information.

Clip and **song** information 214 defines the duration, starting time of a clip in **song** , and the duration of the **song** itself, along with fade-out and fade-in parameters, which are preferably the duration of...

...II 6. The clip audio data is not encrypted. This enables a prospective purchaser to **preview** a portion of the **song** .

A "For-Sale" flag 216 defines whether the media chunk 206 is for sale, or ...

...items 302-308 to
represent multiple purchases. Such multiple purchases can be, for example, all **songs** of a particular album.

PASSPORT
The passport is a data object that provides the security...More particularly, delivery server 1 1 8 receives requests from media player II 6 to **preview** or purchase media data **file** 200 which contains **audio** data, routes such requests to content manager 1 12 for authentication and encryption, and delivers...16. The preview enables the user to decide whether to purchase the entirety of the **song** for permanent storage on a hard disk of client system 126 and subsequent recording to...

...to enter the media descriptive data 204 (Figure 2), such as the artist's name, **song** title, and lyrics, as previously - 21 described.

An artist can include in media data file...encodes the media ID and type of request, whether for a clip or the entire **song** .

HTTP server 122 receives the **preview** request, and invokes in step 704 content manager II 2 via a TCP connection, which....

...embodiment, this is done by accessing first a cache of media IDs of frequently accessed **songs** . If the requested media ID is not present in the cache, content manager I 1...6. This information informs media player 1 16 of the duration of the clip or **song** , data size of the encoded audio to be delivered, starting and ending times of the...

...stream, indicating the voucher ID 302, the status of the stream, the duration of the **song** that was played by the consumer, and which audio image 208, if any, was downloaded...

...From the user's Web browser 128 (Figure 1), a purchase request for a specific **song** is sent to HTTP server 122, for example by the user clicking on a "Buy...

...step 902 (Figure 9A). The button generates a URL including the media ID of the **song** to be purchased. For example, an invocation of the HTTP server 122 (Figure 1) can...2 (Figure 1) decrypts the reservation request and, in response thereto, verifies that the requested **song** at the

specified quality level actually exists in master media files 120 and is available...
...up the received media ID in media information
database 106 to confirm that the requested **song** exists and is available for purchase. If the media data file 200 identified by the...data.

If the voucher ID is verified, content manager 1 12 (Figure 1) encrypts the **song** 's media key with the public key of media player II 6 in step 972...log entry includes a timestamp, the track title, the artist name, the track authors, the **song** length, the sale price, the certificate ID from media player II 6, the voucher ID...by content manager II 2 for network sending and receiving requests, and the number of **songs** available for purchase. This module also manages and tracks performance statistics, such as overall volume...delivery server I 1 8 to media player I 1 6 to provide clip and **song** parameters for **previewing** a file, including lead-in and lead-out, fade-in and fadeout, bandwidth, and duration...

Claim
... WATERMARKED AUDIO IMAGE 208
ENCRYPTION PARAMETERS 210
INDEX TABLE 212
FOR SALE FLAG 216
CLIP & **SONG** INFORMATION 214
TIMESTAMP 218
TRANSACTION ID. 220
TABLE OF CONTENTS 222
FIGURE 2
/23
300...Font A
Address
Fftp:Hindie.liquidaudio.com/cgi-bin/build-buy-list.pl?AccountName=hangout
Songs Available for **Preview** or Purchase
Buy **Song** Title Artist Cost($) Liquid Tracks
0 This **Song** is For You Carson 0.99 Click Here for
Crooner 'Free **Preview** !
El Here's Another **Song** for Billy 0.99 Click Here for
You Baritone Free Preview!
Sally Click Here for
0 This is Your **Song** Solo 0.99 Free **Preview** !
Do-it Click Here for
F1 One Terrific **Song** 0.99
Duet Free **Preview** !
Place Order I Clear Selections
Copyright 1996, 1997 Liquid Audio Inc. All rights reserved FUELED...

 15/3,K/16   (Item 15 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00427623   **Image available**
INTERACTIVE WEB BOOK SYSTEM
SYSTEME DE LIVRE WEB INTERACTIF
Patent Applicant/Assignee:
  FAMILY SYSTEMS LIMITED,
Inventor(s):
  REYNOLDS Brian,
  GOLDHOR Richard Scott,
Patent and Priority Information (Country, Number, Date):

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Application: WO 97GB2842 19971015 (PCT/WO GB9702842)
Priority Application: US 96735727 19961023
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 AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU
 ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
 PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH KE LS MW
 SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE
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Publication Language: English
Fulltext Word Count: 10646

Main International Patent Class (v7): **G06F-017/30**
Fulltext Availability:
  Detailed Description

Detailed Description
... con@.ributed
  2S material may be literary or artistic in nature, such as
  an essay, **song** , painting, or movie. Other contributed
  material may be of a more technical or utilitarian
  nature...

...contain a number of
  different types of contributions, such as essays,
  SUBSTITUTE SHEET (RULE 26)
  songs , and video clips, structured around a central
  theme. If desired, ibooks may be set up...material. For example, a
  contributor may wish to create a running commentary on
  a multimedia **segment** or a **song** . Although the
  commentary is not an alternate version of the existing
  material, it is related...
...of musical fragments from different composers
  or a mix of multiple tracks into a single **song** .

  A derivation may be a sequel in which the
  subject, characters, and context of a...the same material in French.
  Alternatively,
  the original material might contain the score of a **song**
  and the transcription might contain a recording of a
  performer singing the **song** . If the original contains a
  Java script for an applet, the transcription might
  contain an...

...with a different quality or
  resolution. For example, it may be desired to store a
  high fidelity audio track at one location and a lower
  fidelity version of the same track at...

...work
  of the other contributor. For example, a composer may
  create a track of a **song** while listening to an existing
  track of another composer.
  FIG. 3 is a more detailed...a book) or
  in parallel (e.g., when the components are audio tracks
  in a **song**).

  As a user views passages 152, ibook server

application 64 preferably stores information concerning which...in FIG. 14. In ibook system 272, a first composer at client 274 records a **high - fidelity** track (track A) in the form of ibook passage 276 using ibook authoring tool 86...

...first composer may
create a rhythm guitar track to form the basis of a new **song** . Because **high - fidelity** audio requires a substantial amount of memory to store, the first composer can create a...such
as a vocal track. Low-fidelity passage 280 contains less information than the corresponding **high - fidelity** passage 278, so it is easier to provide passage 280 to client 286. The second...

...vocal track, while listening to the rhythm guitar track 5 of the first composer. A **high - fidelity** version of the vocal track (track B) can be stored on client 286 in passage...

...84 allows users to listen to multiple tracks in parallel, in the form of a **song** . Users can select which tracks are played back and the mix of the track using...

...hear only those tracks contributed by a 2S certain composer. In addition, contributors can create **songs** by copying selected tracks and editing them using authoring tool 86.

Server 278 maintains sufficient...

...can be used by navigation tool 84 and authoring tool 86 to play back the **high - fidelity** versions of tracks A and B.

Although various information concerning the ibook passages, such as...
?